



23 Jan 1991

## The Missouri Miner, January 23, 1991

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# Missouri Miner



A publication of the students of the University of Missouri-Rolla

January 23, 1991

Volume 79, Number 16

Twenty pages

## Board of Curators set new policies

News  
University Relations

In its annual election of officers, the University of Missouri system elected Webb R. Gilmore of Kansas City as president and John P. Lichtenegger of Jackson as vice president of the board for 1991. Gilmore was appointed to the board in 1989. Lichtenegger was first appointed to the board in 1985 to finish an unexpired term; he was reappointed to the board in 1989. Both are attorneys.

In the board's Academic Affairs Committee meeting, curators encouraged the University to help students, faculty and staff who are called to active military duty as a result of the middle East situation. Students called to active service will be given tuition refunds if they are unable to complete the semester, University System President C. Peter Magrath said, and faculty and staff have been asked to help students resolve financial and academic difficulties.

In a review of intercollegiate athlet-

ics on all campuses, curators discussed graduation rates of athletes, scholarships, fund raising and finances. Curator G. Andy Runge suggested the board consider options available in intercollegiate athletics, including the possibility of recognizing NCAA athletics as a business and entertainment endeavor and returning athletics to the students.

Runge said universities should not subsidize farm teams for the National Basketball Association and the National Football League, and there must be a way for the University of Missouri System to lead American higher education to recognize the prior role of athletic programs. "This great university should be a part of finding that way."

In a report on how the University's libraries are confronting the information age, curators were told of ways the libraries use limited resources effectively by sharing technologies and materials with each other and with other libraries. The use of a computerized online card catalog and record-keeping system, LUMIN, improves access by students and faculty mem-

bers to millions of documents in the University's libraries and card catalogs at 60 other libraries around the nation. The technology also makes it possible for the four campuses to share library resources, keeping down costs.

LUMIN's capabilities will be expanded by establishing a toll-free communications network to allow all state-supported Missouri colleges and universities access to each other's online library systems. Library access is also available to Missouri citizens who have computers and modems.

Library directors are considering plans that would allow LUMIN to evolve from a catalog and record-keeping system into an online reference system.

In a review of the patent program, curators were told that royalties for licenses and patents developed on the University System's four campuses

See Curators, page 4

## University sponsors undergraduate research

I am pleased to announce the continuation of the Opportunities for Undergraduate Research Experience program on the UMR campus. Once again, I have asked the Dean of Graduate Study, Harry Sauer, to administer this program.

The purposes of this program are

- 1) expand opportunities for a more active form of learning by students;
- 2) encourage through research the direct interaction of undergraduate students with faculty;
- 3) expand the level of research activity on the campus;
- 4) help encourage superior students to pursue graduate study; and
- 5) demonstrate that teaching and research are compatible and mutually reinforcing at a research university.

The following guidelines have been adopted for the program.

- 1) Eligibility. All full-time UMR undergraduates students are eligible to participate in the program. Students must have a cumulative grade point average greater than 2.5 in order to be

eligible for the Ogre program. Some projects may require special student skills. Projects may provide pay and/or academic credit. Participation in the program by UMR undergraduate students require that a faculty sponsor sign the research agreement attesting to the academic value of the proposed project and agreeing to supervise it. The project definition is left entirely to the student and faculty supervisor.

2) Administration. The program shall be administered by the Dean of Graduate Study. Decisions regarding the expenditure of funds and the selection of research projects shall be the responsibility of the Dean with the advice of a committee of graduate faculty members including two members selected by each School/College Dean.

3) Applications. Applications forms and descriptions of the program may be obtained from the Graduate Office, 210 Parker Hall.

See Research, page 4

## Chancellor Jischke named Governor's Science Advisor

News Services  
SOURCE

Dr. Martin C. Jischke, Chancellor of the University of Missouri Rolla, was named Science Advisor to the Governor by Governor John Ashcroft.

The position of Science Advisor was created by statute in 1983 to advise and assist the governor and the Missouri Corporation for Science and Technology; to identify scientific and technological problems and opportunities in the areas of education and economic development; and to formulate initiatives and programs that will enhance the development of science and technology in the state.

Dr. Jischke received his master's and PhD degrees in aeronautics and astronautics from the Massachusetts Institute of Technology in 1964 and 1968 respectively. He has served as Chancellor of the University of Missouri-Rolla since 1986.

"Dr. Jischke is held in the highest esteem by educators and business lead-

ers throughout the state and has a broad knowledge of the challenges and op-

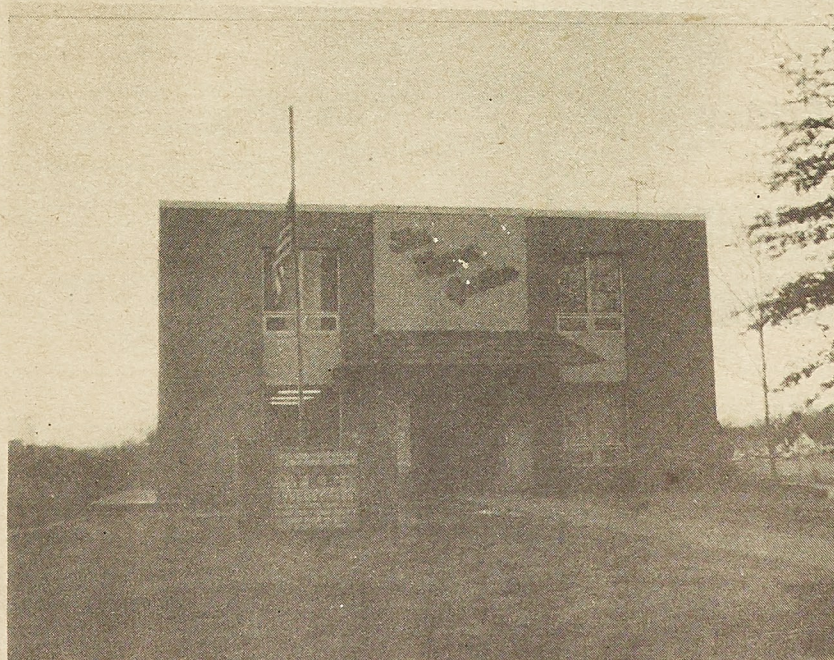
portunities related to science and technology in Missouri," Ashcroft said. "I could not have chosen a more eminently qualified person as the state's chief advocate for science and technology."

Dr. Jischke presently serves as vice chairman of the Missouri Corporation for Science and Technology, which works with universities and colleges across the state to assist industry in meeting their research need; to attract private and public sector investment in research and development; and to assist in the development of science education.

Jischke said, "I am honored by this appointment and look forward to working with the Governor and others to advocate science and technology in Missouri."

Jischke succeeds former gubernatorial science advisor Dr. William Phillips, who now serves as deputy science advisor to President Bush.

## U.S. Troops, Dr. M. L. King remembered



Kevin Biggers

Tau Kappa Epsilon flies its flag at half-mass in memory of Dr. Martin Luther King and U.S. soldiers in the Persian Gulf.



# Calendar of Events

## Wednesday

Miners at Mo. Southern  
Bible Study Club, 12:30 pm.  
Wesley Mtg., 6:00 pm.  
Blue Key Mtg., 6:00 pm, 216 ME.  
AGC Mtg., 7:00 pm, 114 CE.  
ASME Mtg., 7:00 pm, 104 ME.  
American Found. Soc., 7:30 pm.  
SME/McN., 7:30 pm.  
Newman Mass, 9:00 pm.

## Thursday

Engineering in the Twenty-first Century Lecture Series, "Preparing the Next Generation of Engineers and Scientists," Dr. Uri Treisman, E.M. Lang Visiting Professor of Mathematics and Social Change at Swarthmore College and director of the Dana Center of Mathematics and Science Education at U.C. Berkeley, 4 p.m., Mark Twain Room, University Center-East. Free.  
Self Confidence Workshop, 3:30 pm, 201 Norwood.  
Toastmasters Meeting, 4:30 pm, 220 Fulton.  
Chi Epsilon Meeting, 5:00 pm, 117 CE.  
Council of Grad. Students Meeting, 5:00 pm, 220 Fulton.  
IK, 6:30 pm, 204 McN.  
Climbing Club, 6:30 pm.  
HKS Meeting, 6:30 pm, 102 EE.  
Film Series, 7:00 pm, 104 ME.  
GDI, 7:00 pm, 114 CE.  
Alpha Chi Sigma Smoker, 7:00 pm, 139 Schrenk.  
Society of Prof. Hispanic Eng. Meeting, 7:30 pm, 216 McNutt.  
Chess Club, 7:30 pm.

## Friday

SUB Movie: Glory, 104 ME.  
Pakistan Students Association Meeting, 6:00 pm, Meramec.  
IVCF Meeting, 7:00 pm, 139 Schrenk.

## Saturday

SUB Movie: Glory, 104 ME.  
Army/Air Force ROTC Dance, Centennial.  
Indian Assoc. Film, Missouri, 6:00 pm.  
Chinese Student Assoc. Movie, 7:00 pm, G-3 Schrenk.

UMR Women's Basketball Pittsburg State University, 5:30 p.m., Bullman Multi-Purpose Building. Free.

UMR Men's Basketball Pittsburg State University, 7:30 p.m., Bullman Multi-Purpose Building. Admission charged. UMR students admitted free with a valid UMR I.D.

## Sunday

Wesley Chapel, 7:00 pm

## Monday

Christian Campus Fellowship Meeting, 6:00 pm, Missouri.  
GDI BOG, 7:00 pm, Meramec.

## Tuesday

Test Anxiety, 3:30 pm, 201 Norwood.  
TAU BE CAPT, Organizational Meeting, 7 p.m., CE 114.  
IEEE Meeting, 7:00 pm, 114 CE.

## Next Wednesday

Bible Study Club, 12:30 pm.  
Communication Workshop, 3:00 pm.  
Wesley Meeting, 6:00 pm.  
Alpha Chi Sigma Meeting, 7:00 pm, G-3 Schrenk.  
UMR Women's Basketball Southwest Baptist University, 5:30 p.m., Bullman Multi-Purpose Building. Free.  
UMR Men's Basketball Southwest Baptist University, 7:30 p.m., Bullman Multi-Purpose Building. Admission charged. UMR students admitted free with a valid UMR I.D.  
American Society of Civil Engineers, 7 p.m., CE 114.  
Newman Mass, 9:00 pm.

## Today

AMERICAN RED CROSS GREATER OZARKS REGIONAL BLOOD SERVICES Persian Gulf Conflict Requires more blood. The American Red Cross Greater Ozarks Regional Blood Services has recently been advised that Operation Desert Storm will affect the blood collections of the region.

Effective immediately bloodmobiles will no longer be conducted at Fort Leonard Wood to help support the civilian need in the area hospitals. An average of 370 units per month has been collected from the military personnel that must now be obtained from community, high school, college and industry blood drives.

The Regional Blood Services has also been notified that during the week of January 21, 100 units of blood will be shipped to the National American Red Cross Blood Services in support of the weekly request of 1,000 units of blood from the Department of Defense.

The Red Cross officials state that if there is hostility in the Middle East, at least an additional 475 to 500 units of blood will be required to meet the needs of both hospital patients and military.

Community bloodmobiles throughout the 39 county region in Missouri, Arkansas, and Kansas will be called upon to meet this challenge and support the men and women of the military.

## Financial Aid

**NEW FELLOWSHIPS FOR SOUTHEAST ASIAN STUDIES** The Henry Luce Foundation has awarded a \$225,000 grant to the Council on International Educational Exchange's Cooperative Southeast Asian Studies Program. Approximately fifty percent of the grant is allocated to undergraduate fellowships. In 1988, CIEE established an undergraduate program in Indonesia and in the fall of 1991, programs will begin in Vietnam and Thailand. All three programs are offered on a semester basis in the fall and spring and do not have language requirements.

For more information on the Cooperative Southeast Asian Studies Program in Indonesia, Thailand, and Vietnam please contact the Academic Programs Department, CIEE, 205 E. 42nd Street, New York, NY 10017; tel (212) 661-1414, ext. 1486.

The Student Financial Aid office is available to give presentations on Financial Aid to any interested parties. For more information or to make arrangements, call 341-4282 or come by G-1 Parker Hall.

**SOCIETY OF PROFESSIONAL WELL LOG ANALYSTS FOUNDATION** The Society of Professional Well Log Analysts Foundation provides financial assistance to eligible and qualified recipients pursuing a degree program related to oil, gas or other mineral formation evaluation. Scholarships are available for undergraduate and graduate students and are awarded on a competitive basis which takes into account academic achievement, career objectives, and financial need. Grants are available to undergraduate and graduate students and to faculty members to support research studies and educational projects related to formation evaluation.

**Deadline dates for submitting applications for SPWLA scholarships and grants are March 18, 1991.**

For more information and application forms contact the Student Financial Aid office, G-1 Parker Hall.

**American Electroplater and Surface Finishers Society Scholarship Programs** The American Electroplaters and Surface Finishers Society offers separate scholarships for university or college undergraduates and graduates who demonstrate that their training (or research) is related to plating and surface finishing technologies.

**Eligibility for Undergraduate Scholarship Program:**

A student may apply for any academic year when he or she will be an undergraduate of at least junior standing in a chemistry, chemical engineering, environmental engineering, metallurgy or material science program where the focus of the curriculum is in surface science subjects.

**Eligibility for Graduate Scholarship Program:** A student may be eligible if he or she has completed an accredited undergraduate program and is enrolled in a graduate program leading to a master's or Ph.D. degree.

Award selections will be based on, but not limited to: career interest in surface finishing, scholarship, achievement, motivation and potential. Awards are not necessarily based on financial need.

Application materials may be acquired in the Student Financial Aid office, G-1 Parker Hall. **Deadline is April 15, 1991.**

**William E. Weisel Scholarship Fund** The William E. Weisel Scholarship, through the SME Foundation, will be awarded annually to a worthy full time student seeking a career in robotics/automated systems.

**Eligibility requirements are:**  
must be a full time students attending a regionally accredited school in engineering or technology, seeking a career in robotics/automated systems and having completed a minimum of 30 credit hours in a manufacturing/robotic/automated systems curriculum. (Graduate students will not be eligible for this scholarship)

must possess a minimum gpa of 2.75

**Deadline is March 1, 1991.**  
Information on how to apply may be acquired in the Student Financial Aid office, G-1 Parker Hall.

**Myrtle and Earl Walker Scholarship Fund** The Myrtle and Earl Walker Scholarship, through the SME Foundation, will be awarded annually to worthy students seeking a career in manufacturing engineering and manufacturing engineering technology. Eligibility requirements are:

must be a full-time student attending an engineering, technology or accredited trade school, seeking a career in manufacturing engineering and have completed a minimum of 30 credit hours in a manufacturing engineering or technology curriculum. (Grad students not eligible).

must possess a minimum gpa of 2.75  
**Deadline is March 1, 1991.**

Information on how to apply may be acquired in the Student Financial Aid office, G-1 Parker Hall.

**NATIONAL ASSOCIATION OF WOMEN IN CONSTRUCTION GREATER KANSAS CITY**

The Greater Kansas City, Missouri NAWIC Scholarship Foundation offers scholarships to students pursuing a career in the construction industry. Applications must be postmarked on or before March 31, 1991, to be eligible or considered for a scholarship award.

Additionally, we have applications for scholarship grants awarded by the National Association of NAWIC. Those applications must be postmarked by February 1, 1991.

For applications and information, contact the Student Financial Aid office, G-1 Parker Hall.

**THE HEAVY CONSTRUCTORS ASSOCIATION OF THE GREATER KANSAS CITY AREA** The Heavy Constructors Association of Greater

Kansas City is making two scholarships available, each in the amount of \$2,500 for students pursuing careers in construction sciences. Requirements are:

Shall be full-time students who demonstrate financial aid.

Preference given to well rounded persons who are upper classmen, to Kansas City area residents, and to sons or daughters of construction employees.

Applicants will be required to demonstrate their commitment to obtaining careers in construction.

Recipients will be required to seek summer employment in construction.  
**Deadline: April 15, 1990**

Applications may be obtained in the Student Financial Aid office, G-1 Parker Hall. The application is to be turned in to the SFA office by April 15, 1990.

**CONSULTING ENGINEERS COUNCIL OF MISSOURI** CEC Mo is currently accepting applications for its annual scholarship awards program. CEC Mo will be offering three \$1,000 cash scholarships. Eligibility requirements are:

Candidates must be U.S. citizens.

Pursuing a Bachelors Degree at an accredited college of engineering and entering their junior, senior or fifth year in the fall of 1991.

Winners will be selected based on superior scholastic efforts, civil responsibility, community and college-level ability.

For more information and where to contact to obtain the application, contact the Student Financial Aid office, G-1 Parker Hall.

**Deadline: Jan. 25, 1991**

**SOCIETY FOR THE ADVANCEMENT OF MATERIAL AND PROCESS ENGINEERING** SAME is officially kicking off their 1991 Undergraduate Awards Program for Engineering Students. Consideration is given to scholastic average, specific courses of study, academic awards and honors received, work experience, campus and community activities, and written dissertation demonstrating the student's objectives in processing and materials technologies. The requirements are:

Pursuing a B. S. in engineering.  
Applicants must be a full-time students in one of the accredited programs.

See Financial Aid, page 3

## Missouri Miner

The **Missouri Miner** is the official publication of the students of the University of Missouri-Rolla. It is distributed each Wednesday afternoon at Rolla, Missouri and features activities of the students of UMR.

All articles, features, photographs, and illustrations published are the property of the **Missouri Miner** and may not be reproduced or published without written permission.

The **Missouri Miner** encourages comments from its readers, and will attempt to print all responsible letters and editorial material received. All submissions must have a name, student ID number, and phone number for verification. Names will be withheld upon request.

Submissions for publication must be in our drop box (first floor of the Norwood Hall, Room 103) by 3:30 p.m. on the Thursday before publication. The **Missouri Miner** reserves the right to edit all submissions for style, grammar, punctuation, spelling, length, and matters of good taste.

The **Missouri Miner** is operated by the students of UMR and the opinions expressed in it do not necessarily reflect those of the university, faculty, or student body.

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## School of Mines and Metallurgy receives grant

News Services  
SOURCE

The University of Missouri-Rolla's School of Mines and Metallurgy has received a \$150,000 grant over five years from ASARCO Incorporated for the establishment of the ASARCO Endowment Fund. The fund will be used for undergraduate scholarships and faculty support.

"On behalf of the campus, our students and faculty, I want to thank Asarco for its generous grant to UMR," says UMR Chancellor Martin C. Jischke. "This grant will greatly enhance UMR's ongoing commitment to mining engineering students and faculty within the School of Mines and Metallurgy."

Dr. Don L. Warner, dean of UMR's School of Mines and Metallurgy, says,

In presenting the grant on behalf of the foundation, Robert J. Kupsch, Asarco vice president of mining, who received a B.S. degree in mining engineering from UMR in 1951, and who is one of 15 UMR graduates currently employed with Asarco, says, "The University of Missouri-Rolla is one the nation's leading educators of miners and metallurgists."

"We are grateful to Asarco for this grant. The establishment of the Asarco Endowed Fund, through this grant, will provide permanent assistance in our efforts to make available scholarships for undergraduate students and also will enhance faculty support in the Department of Mining Engineering of the School of Mines and Metallurgy."

## Financial Aid

Applicants must be recommended by their department head.

Applicants must have a 3.3 minimum cumulative gpa based on 4.0.

High school and college seniors are not eligible.

1991 Awards: 1st Place: \$3000, 2nd Place: \$1500, 25 \$1000

Deadline: February 1, 1991.

Applications may be picked up in the Student Financial Aid office, G-1 Parker Hall.

**1991-91 ACT/FES Available** The ACT Family Financial Statements for the 1991-92 academic year (Fall 1991 and Winter 1992) are available for students in the foyer outside the Student Financial Aid Office (G-1 Parker Hall). This form must be completed in order for a student to be considered for a Pell Grant, College Work Study, Perkins Loan, University Loans, Missouri Grants, the Stafford Student Loan Program, The

across the country. Loan program is for the PLUS/SLS Loan Program for the 1991-92 academic year. First consideration will be given to those students whose ACT/FES is received by the processing agency by March 31, 1991.

**Correct Student Address Very Important** The Student Financial Aid office is encouraging student to contact the Registrar's office to make sure that their permanent (P) address and local (L) address on file is correct. The Student Financial Aid Office notifies students in the summer of each year at their permanent (P) address on what financial aid will be offered to them for the next year. While classes are in session, all Student Financial Aid Office correspondence and "financial aid proceeds" checks are sent to the students local (L) address.

The Registrar's Office should be contacted whenever a student's Permanent (P) or Local (L) address changes.

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\$100 for the Summer Orientation Program (June 3 - 21)

To learn more about these exciting positions, applicants should attend an informational session on Tuesday, January 29, or Wednesday, January 30, at 3:30 in 303 Norwood Hall. This meeting will help you learn more responsibilities of Summer Staff members.

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204 Norwood Hall (341-4025)  
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104 Norwood Hall (341-4218)

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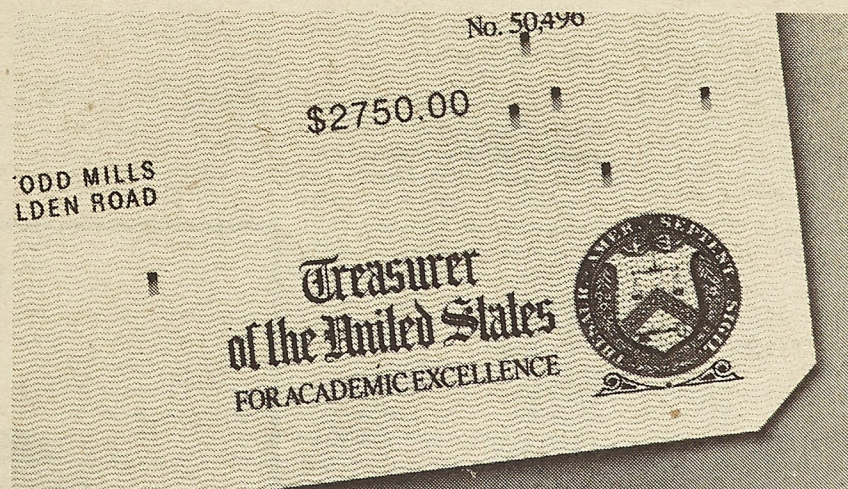
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# Biotechnology raises controversy

News Services  
SOURCE

Surrogate mothers, gene therapy, genetic engineering and other advances in biotechnology may raise legal and ethical concerns and an understanding of genetics is helpful in making informed decisions about these issues, in the view of Dr. Ronald L. Frank, assistant professor of life sciences at the University of Missouri-Rolla.

Frank teaches a course in "General Genetics" which is open to science and non-science majors. "We definitely encourage students who are not majoring in science to enroll because there are a number of areas within the field of genetics that are impinging upon the decision-making processes within society," he says.

Surrogate parenting is one of those areas.

"In class, we talked about the cases of Mary Beth Whitehead and Anna Johnson, whose case was decided recently," says Frank. "I explained the differences in the circumstances — one was a true surrogate mother and the other was not — and what technology allows doctors to do.

"We also discussed the moral implications," he adds. "The students' responses varied. Some of the students questioned a woman's reasons for being a surrogate mother. Others suggested that a couple has a right to a child which is genetically theirs but which they cannot physically give birth to."

A couple planning to have a child may seek the services of a genetic counselor, says Frank.

"As scientists learn more about human genetics, genetics counselors have more knowledge and techniques available to inform couples about their probability of giving birth to children with genetic disorders," he explains. He cites amniocentesis, which can detect genetic disorders within a fetus, as an example of the technology available to couples who seek genetic counseling.

Others may benefit from genetic counseling, as well. "An individual might seek to determine the probability that he or she is carrying a gene for a particular disease," says Frank.

"There was a case in the news recently of two brothers who sought counseling to determine if they were carrying the gene for Huntington's Disease," adds Frank. "Genetic screening determined that one was carrying the gene and the other was not.

"It is possible to screen individuals to determine if they will get Huntington's Disease or if they carry the cystic fibrosis (CF) gene. People who have the Huntington's gene will be affected by the disorder around the age of 40 or 50," Frank explains. "ACF carrier will not get the disease but will pass the gene on to his or her children.

"Some of the controversy surrounding genetic screening involves

how much others are entitled to know about a person's health risks, and we will discuss some of the ethical concerns in class," says Frank. "For example, if an insurance company knows that a person has a gene that predisposes him or her to heart disease, they might not insure the individual."

On the other hand, genetic screening can be beneficial. "People who have knowledge of their potential for carrying certain genes or having children who might inherit genetic disorders can make informed decisions about what actions to take," says Frank.

Treating inherited diseases is becoming more feasible because of research in gene therapy, which involves removing some cells from the affected individual, replacing the defective gene with a functional one and returning the cells to the body, explains Frank.

"This past September, the first trial use of gene therapy was begun on a child with a form of severe combined immunodeficiency (SCID), a disorder that impairs the immune system and is better known as the 'bubble boy' disease," he says. "In addition to SCID, other disorders such as cystic fibrosis, hemophilia and Duchenne's muscular dystrophy which are caused by defects in a single gene are promising candidates for gene therapy.

"The first recipients of gene therapy are children because this disease prevents them from living into adulthood," he adds. "In the future, adults may also receive gene therapy, possibly for certain types of cancer."

Another course topic is genetic engineering, or the manipulation of DNA, the material which transmits hereditary characteristics, continues Frank.

"There are two aspects of genetic engineering — the manipulation of DNA to study genetic control and the manipulation of DNA to change characteristics to plants or animals," he explains. "At present, genetic engineering is mostly used by researchers to study genes. Its use for changing an organism's genetic makeup is limited."

In animals, genetic engineering is being used to synthesize vaccines for immunizing agricultural animals against disease.

"Plants are being genetically engineered to make them more resistant to pests or herbicides used to control weeds," says Frank. "In the future, plants also may be made more productive by genetic manipulation."

Frank is using genetic engineering technology to study the structure of genes in soybeans and how the genes are regulated. "I cloned a gene from soybean, which means essentially that I

isolated a gene and inserted it into a

bacterium in order to study the structure and regulation, or response, of that gene," he says.

"The research revealed that three copies of the same are found in soybean," explains Frank. "First, the gene is involved in the soybean's response to wounding or infection.

"It also is involved in the soybean's response to ultraviolet light, a component of sunlight," he adds. "Third, the gene is involved in the soybean's ability to form a mutually beneficial relationship with a soil bacterium that allows the soybean to use nitrogen from the air rather than fertilizer."

Although his research is not directly related to growing a better soybean, he hopes it may someday lead to that.

He points out that a major concern about the use of genetic engineering is that two genetic components would be brought together in an organism in which they had not existed together before.

"Some people believe scientists do not have enough information to predict the consequences of joining two genes in an organism where they are not together naturally," he says.

"Because of their concerns, scientists worked under a self-imposed moratorium when genetic engineering became a possibility in the 1970s and strict guidelines were established by the National Institutes of Health," explains Frank. "As scientists learn more about genetic engineering, some of those concerns are diminishing."

## Curators

from page 1

reached an all-time height for fiscal 1990, reflecting the university's success in transferring technology to businesses and industries that can use it to contribute to the state's economic development.

In other activities during the two day meeting, curators:

- heard UM System President C. Peter Magrath announce plans for cutting an additional \$3 million from the University's budget in response to the governor's additional withholding. The University's total budget reduction for this fiscal year is nearly \$16.5 million.

- learned that UM Rolla and UM St. Louis have reached agreement on a plan for a cooperative engineering program for place bound students in St. Louis. The governor last summer vetoed a \$1 million appropriation for creation of the program and urged the University to revisit the issue. The plan remains that approved by the Board of Curators in 1989 with the addition of logistical arrangements agreed to by the two campuses. The program may be started on a limited basis, but full implementation will

await sufficient state funding.

- heard an update on assessment measures that began two years ago. All departments have adopted some form of assessment for graduating seniors, and many curriculum changes have been made in response to findings of assessment activities. Direct expenses of assessment efforts in 1989-90 were \$625,000.

- approved renaming the University of Missouri-Columbia's College of Agriculture. The new name is College of Agriculture, Food & Natural Resources.

- approved funding for 31 Missouri Research Assistance Act projects intended to strengthen Missouri's economic development. More than \$500,000 in state funds was approved for 28 University of Missouri System projects and three Washington University projects.

- approved state funding for 11 research projects designed to help victims of Alzheimer's disease and related disorders. The research projects were proposed by researchers at the University System, Jewish Hospital of St. Louis, St. Louis University and Washington University.

## Research

from page 1

This program is designed to provide additional opportunities to UMR students to participate in the research program of the campus. I believe this is an excellent educational opportunity for our superior undergraduate students.

Martin C. Jischke  
Chancellor

# HOW SWEET IT IS!



## ONE MEAN MOTH'



COME SEE THE C.D. PLAYER THAT'S TAKEN  
ON ALL THE  
CONTENDERS AND COME OUT THE CHAMP

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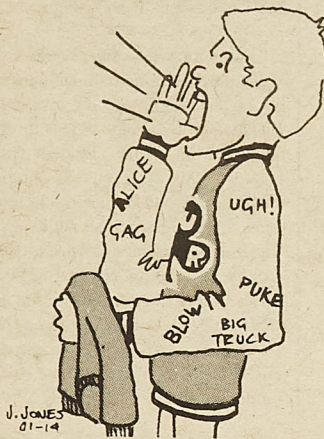
# Features

## Only 50 Daze left til the "Best Ever"

Matt Tobey  
St. Pat's Board

With just 50 Daze left until the "Best Ever" is here, the St. Pat's Board is working harder than ever to make sure everything runs smoothly. A lot of work still lies between now and St. Pat's, so the St. Pat's Board has taken on its new Baby Reps. Get ready guys, time flies when you're working hard.

The deadline for Student Queens and Knights is Tuesday, February 5. On that night, students representing their organization need to be at Triangle Fraternity between 7:00 and 9:00 for their photo session. Please bring your completed application. For information call Mark Kilgore at 364 8968.



ALL GREEN is now on sale at the hockey puck. Board Reps, including the new Baby Reps, will be selling at the puck Monday through Friday from 8:30 to 3:30. The Special Edition Sweatshirts are already almost gone, so get yours now or you will be severely disappointed! In fact, there should be no reason why everyone isn't wearing St. Pat's Green. Garters, buttons, mugs, and the Mega Size 4 oz. shot glasses are also available at the puck.

There are only 50 Daze left until St. Pat's is here, so your shillalights, cudgels, and floats should be well under construction. Just remember, without you this would never happen, so get psyched UMR and when it gets here, St. Pat's WILL be the "Best Ever!!!!"

## IK extends invitation to perspective members

Intercollegiate Knights  
SOURCE

As a new semester is now upon us, the Intercollegiate Knights of Missouri wish to extend an invitation to new members. This new service organization, now in its second semester stems from the national organization, Intercollegiate Knights, and it upholds the tradition of service, sacrifice, and loyalty.

IK's membership is comprised of both male and female students of any social affiliation (Greek or Independent). Members commit to one "page" semester during which they perform ten hours of community service, learn the history of the organization, and make a plaque. Following initiation, active members are required to perform

at least five hours of community service a semester.

Some of IK's projects for this semester include providing assistance to the Red Cross Blood Mobile, sponsoring an Easter Party at Boys' Town, picnics with Big Brothers and Big Sisters of Rolla, volunteer tutoring at Rolla High School, working for the March of Dimes Walkathon, and highway cleanup. IK supports the local as well as providing service to the community.

Any person requiring the assistance of the Intercollegiate Knights of Missouri, or anyone interested in applying for membership may contact Vicki Scammaeca at 34108068. The first general meeting will be held on Thursday, January 24 at 6:30 P.M. in room 204 McNutt Hall. New Pages are welcome to attend.

## SWE sponsors recent engineering conference

News Services  
SOURCE

Approximately 135 high school students and their parents, teachers and counselors learned about careers in engineering during a recent conference sponsored by the University of Missouri-Rolla chapter of the Society of Women Engineers (SWE).

Students from Missouri and other states including Illinois and Kentucky attended the one-day conference, which was titled "Engineering Your Future."

Dr. John Park, UMR vice chancellor for academic affairs, welcomed the students to the campus. UMR students and professional engineers from various companies conducted panel discussions.

The keynote speaker was Sarah Delaney, a senior staff-petroleum engineer for Amoco Production Co.

The students had the opportunity to attend a sample lecture in the UMR physics department and visit departments on campus. In addition, they gathered information about admission procedures, housing and financial aid. SWE officers are: Amy Melius, president, Bowling Green, KY.; Melissa Benedick, vice president and conference chair, North Kansas City, Mo.; Tracy Greiwe, corresponding secretary, St. Charles; Kathy Gunderson, resume book editor, Colorado Springs, Colo.; and Kimberly Stevenson, secretary-treasurer, Kansas City, Mo.

Corporate sponsors were the Bec-tel Foundation, The Boeing Co., Monterey Coal Co., Phillips Petroleum Co., Sargent & Lundy Engineers, Conoco and Monsanto. UMR sponsors were

the departments of civil, chemical and mining engineering and computer science and engineering management.

## Vet's club looks for new input

By Kelly Bernal  
STAFF WRITER

The new year is a time for new opportunities as well as new beginnings, and the Veterans' Club is wonderful opportunity. The Vets' Club was originally founded as an organization to provide assistance, support, information, and a social outlet for anyone receiving VA benefits or affiliated with the military.

The club still provides these services as well as service to the community, participation with CROP Walk, intramurals and providing a booth at "Gonzo and Games" during the St. Pat's celebration. Another benefit of the Vets club is that they provide a area on campus to study equipped with a computer and quiet atmosphere.

The organization is dedicated to helping the members as well as providing an additional social organization. The membership consists of ANYONE who wishes to have a good time, socialize with friends and you don't have to be a veteran.

Our next meeting is a general membership meeting on Thursday, January 24, at 8:30 p.m. in the University Center East. Refreshments will be provided. The Vets' Club is looking for an infusion of new ideas and goals. Come on down and check it out.

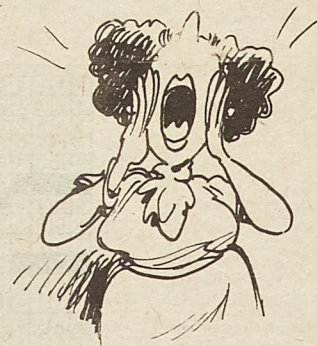
## GDI, always interested in members

By Tom Hart  
GDI

GDI would like to invite everyone to our first party and meeting of the semester. The meeting is at 7:00 p.m. on Thursday, January 24th in CE114. The party is immediately afterward at 100 E. 17th.

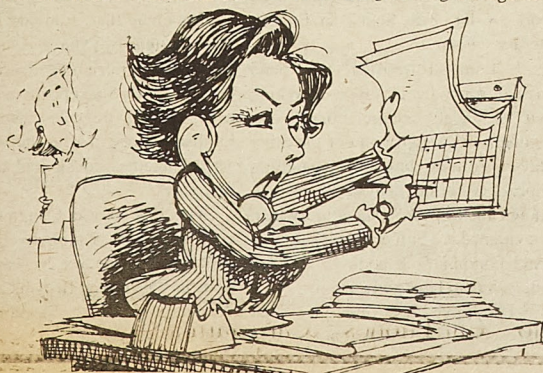
every three weeks. We give out door prizes at the meetings and provide free refreshments for members at the parties. GDI also competes in intramurals, has a float trip each semester, and we even publish a newsletter monthly and the infamous "St. Pat's Sixty Miner" annually. GDI has no attendance requirements and no hazing whatsoever. You do only what you want to do.

IT WON'T BE  
THE SAME  
WITHOUT YOU!



GDI is a social organization for UMR students who would like to have more fun than the usual UMR routine provides. We have an open party and meeting like the one Thursday about

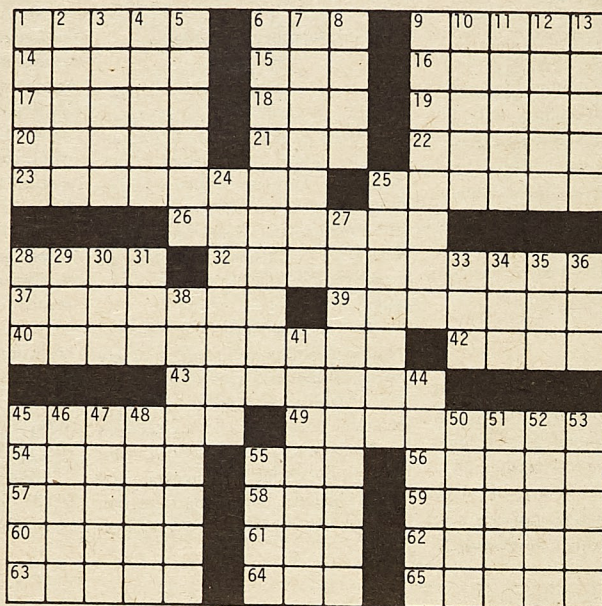
More than anything else, GDI is a way to get out and meet people. So come to the meeting or stop by the party Thursday—we think you will like what you see.





# Fun & Games

## collegiate crossword



© Edward Julius Collegiate CW8714

### ACROSS

- 1 — of strength  
6 Add to, as a story  
9 Horse or car  
14 Five books of Moses  
15 Flightless bird  
16 Well's partner  
17 Fearless  
18 Soak  
19 Pitcher's statistic  
20 S.A.G. member  
21 Small —  
22 Work assignment  
23 Of the chest cavity  
25 Wheat varieties  
26 Central Calif. city  
28 Golf shot  
32 Applying an incorrect name to  
37 — Hornblower  
39 Flea market find  
40 Not speaking well  
42 Concerning (2 wds.)  
43 Housecleaning aid (2 wds.)  
45 Ebb  
49 In a rush  
54 Of a central line
- 55 Soldiers  
56 Ancient region of Asia Minor  
57 Certain exam answer  
58 Here: Fr.  
59 Mongrels  
60 Handbill  
61 Pasture sound  
62 Anchor position  
63 Asterisks  
64 Building addition  
65 Food fishes
- 24 Opera —  
25 Loud-voiced Trojan War figure  
27 Baseball hall-of-famer (2 wds.)  
28 — square  
29 Term of endearment  
30 Fury  
31 " — Joey"  
33 War casualty  
34 Results of Binet tests  
35 Enthusiast  
36 Prefix for metric  
38 Infants  
41 Moral  
44 Bandleader Louis, and family  
45 Hodgepodge  
46 Elevate in rank  
47 Hairlike projections  
48 One who comforts  
50 Part of C.Y.O.  
51 Prefix for mural  
52 Lustrous  
53 Reacts to something shocking  
55 Ridicule

### DOWN

- 1 Up (2 wds.)  
2 Olympics symbol  
3 Muse of poetry  
4 Taste with pleasure  
5 Well-known constellation (2 wds.)  
6 Double-dealing  
7 Punishes  
8 Jury —  
9 Traveler's document  
10 Having wings  
11 Polite  
12 Happening  
13 Takes five



## Paris Texas Ensemble to perform at UMR

News Services  
SOURCE

The Paris Texas Ensemble will perform at 8 p.m. Friday, Feb. 1, in Centennial Hall, University Center-East, at the University of Missouri-Rolla. The performance is part of UMR's Campus Performing Arts Series.

Admission to series events is by season ticket or individual performance ticket (UMR students with a valid ID are admitted free to events through support from UMR's Student Union Board). All other students, retired UMR faculty and staff, and senior citizens, are charged \$5 per series event. The general public and current UMR faculty and staff are charged \$7.50 per series event. Season tickets for non-UMR students, current or retired UMR faculty and staff, and senior citizens, are \$20. Season tickets for the general public are \$30.

Advance tickets may be purchased from the reservationist's window, University Center-West, from 8 a.m. - noon and 12:30 - 4:30 p.m. weekdays. Tickets also may be purchased at the door beginning one hour before curtain time.

Formed by three American musicians of Texas origin, the Paris Texas

Ensemble tours internationally from its home in Paris, France.

They perform American Repertoire, ranging from spirituals, folk-songs, civil war songs and parlor music to ragtime, jazz, musical theatre and works of contemporary composers.

Musicians in the group include Jo Ann Pickens, soprano; John Ferguson, piano; and Paul Wehage, saxophone.

Pickens received first place awards in five major American vocal competitions. She also received the Benson and Hedges Gold Award for singers, and the Concours de Chant de Paris. She has performed with the Chicago Lyric Opera and the Santa Fe Opera Program. Pickens also has performed with the Chicago Symphony Orchestra and has performed at Carnegie Hall.

In addition to studying piano for two years in Geneva, Switzerland, Ferguson studies music in France and at the American Institute of Musical Studies in Austria. He also attended the Institut Jaques-Dalcroze in Geneva and is certified through Carnegie Mellon University.

Wehage has received first place awards in eight national and international competitions. He is recognized in France for his expansion of the saxophone recital repertoire. Wehage has performed with the San Antonio Symphony, as well as throughout the United States and Europe.

## Dr. Knight to present the case for "Edmund Ironside"

News Services  
SOURCE

"Edmund Ironside," a historical play of unknown authorship written in 1587-88, can be attributed to William Shakespeare, says a University of Missouri-Rolla professor of English.

Dr. W. Nicholas Knight will present the case for "Edmund Ironside" as Shakespeare's first play in a paper before the World Congress of the International Shakespeare Association (ISA) in August in Tokyo, Japan.

In the paper, Knight attributes the play's authorship to Shakespeare based on research he has conducted and on work by Dr. Eric Sams, an English literary scholar.

"'Edmund Ironside' was hand written in law hand, a type of writing that uses legal abbreviations," says Knight. "Although none of the other plays were in this law hand, the writing appears to be identical to the seventh known Shakespeare's signature, which is contained in a Folger Library copy of 'Archaionomia,' a book of ancient Anglo-Saxon laws and customs.

"These is also evidence that Shakespeare used 'Archaionomia' as a

source book for the play," Knight adds.

"A comparison of the vocabulary in 'Edmund Ironside' with a few of Shakespeare's early plays indicates that it was written by Shakespeare," he continues. "For example, Dr. Sams found that 'Ironside' contains over 80 words identified by the 'Oxford English Dictionary' as original Shakespeare words.

"In addition, the play refers to a court case in which Shakespeare and his father were involved," he says.

"Shakespeare mentions the litigation in other plays, including 'Hamlet,' 'King Lear' and 'The Taming of the Shrew.'

"From the evidence, I believe we can conclude that 'Edmund Ironside' was written by Shakespeare," says Knight. "It is intriguing to think that in the late 1580s Shakespeare might have been writing tragedies about early English history before he wrote the early comedies considered to be his first plays."

The ISA World Congress meets every five years. Knight has presented papers during the last 20 years at sessions in Vancouver, British Columbia; Washington, D.C.; Stratford-Avon, England; and Berlin.



# Classifieds

## Miscellaneous

**Do you like Star Trek?** Want to do more than watch it on T.V. and wait for a new movie to come out every couple of years? Then join **Starfleet**, the **International Star Trek Fan Association**. I'm trying to get a local chapter started in Rolla, but you have to be a member of **Starfleet** before you can join us locally. Once we get going, we will have **Star Trek** related projects and activities, including gaming, trivia contests, community service, video watching, book trading, and visiting nearby **Star Trek** conventions. Pick up applications for **Starfleet** in the library next to the vending machines or call Matt Turley at 341-9562 for more information.

**For sale:** Onkyo Receiver... 40 watts/channel. Quartz tuner-16 presets. 5 audio inputs. \$75. Call 341-3009 after 6:00 p.m.

**Wanted:** Good 1200 or 2400 Baud External Hayes- Compatible modem for use with IBM computers. Call 341-8956.

**For Sale:** Upholstered rocking chair, orange embossed vinyl with natural wood arms and stationary base. Asking \$15. Can deliver within 3 miles of campus. Call Sue at 341-6576 (Office) or 364-0628 (home).

**Cruise Ship Jobs:** **HIRING Men & Women.** Summer/Year Round. **PHOTOGRAPHERS. TOUR GUIDES, RECREATION PERSONNEL.** Excellent pay plus FREE travel. Caribbean, Hawaii, Bahamas, South Pacific, Mexico. **CALL NOW!** Call refundable. 1-206-736-7000. Ext. C479.

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**JOBS!!! STUDENT CALLERS NEEDED.** The Phonathon Office (10 Farrar Hall in the Quad) is still hiring students to call alumni and parents. Callers are needed from 6:30 to 9:30 p.m. Monday through Thursday nights throughout the school year. Callers sign themselves up for the nights they

are available. Requirements for the job (which pays \$4.75 per hour) are: Good Clear English, Enthusiasm and friendliness, promptness and dependability. For more information or to apply, contact the phonathon office: at 341-6376. Or stop by 10 Farrar Hall.

**Are you ready to rock and roll?** If not you'd better get ready because it's that time again: Time for the 4th Annual Rock-A-thon! Grab your rocking chairs, team members, and get ready to rock the night away from 8:00 p.m. Friday, February 8th until 8:00 a.m. Saturday morning. Co-sponsored by Angel Flight/Silver Wings and Arnold Air Society, this year's Rockathon promises to be an even bigger bash than last year's with lots of fun, entertainment and all the food you can eat. Can your team survive an all-night party of hard rockin'? Get your team and pledges together to find out! Remember, all proceeds benefit charity, so what better way to give to a worthy cause and have fun at the same time? For more information or to register a team, call 341-9207 or 341-4925.

**Welcome back, from Alpha Phi Omega.** Everyone can look forward to an event filled semester with APO. Many new projects are being planned for this semester, so lots of APO actives are going to be needed. Come join in the fun. In addition, on Thursday, January 24, at 6:30 p.m. APO will be holding their formal pledging ceremony in the Mark Twain room, University Center East. All new pledges (independent and Greek) are welcome, and are being asked to arrive at 6:15 p.m. See you there!

### Attention UMR students:

Become a member of a winning team and earn extra money, up to \$8.00/hr., working part-time as a delivery driver for **Dominoe's Pizza**. Apply in person during business hours at 704 N. Bishop, 364-7110.

See Classifieds page 8



UMR



The UMR Rugby Club invites you to be counted among the great. All classes are eligible to participate.

Practices are T, W & R  
4:30 - 6:00 p.m.

\*contact Chris Chichura at  
341-5369

## PERSONAL RESOURCE DEVELOPMENT



Sponsored by Counseling & Career Development  
A Division of Student Affairs  
341-4211 204 Norwood Hall



### TURBO-CHARGING YOUR SELF CONFIDENCE

Thursday, January 24 3:30 - 4:30 p.m. 201 Norwood  
Facilitator: Ms. Sandra Terry

Do you seem to have the personal power of a Porsche or a Yugo? Do you know that feeling confident about one's abilities is essential to optimal career and academic performance and relationship satisfaction? If you would like to learn how to enhance your self confidence, plan on attending this workshop.

### TEST ANXIETY

Tuesday, January 29 3:30 - 4:30 p.m.; 201 Norwood Hall  
Facilitator: Dr. Gene Van Matre

Learn how you can reduce the anxiety that causes you to forget critical facts and figures when you take tests only to remember them on the way to your room later.

### STEPPING OUT WITH CONFIDENCE

Beginning Thursday, February 14 3:00 - 4:30 p.m.; Location to be announced  
Facilitator: Ms. Sandra Terry

Are YOU your worst critic? Do you have difficulty accepting compliments and handling criticism? Do you hold back in social situations and refrain from trying new activities because of anxiety? If you answered "yes" to any of these questions, then this six-week self esteem enhancement skills building group may be helpful for you. Limited enrollment - contact Counseling & Career Development by January 28 for preregistration and to schedule a brief introductory interview. **ATTENDANCE REQUIRED AT ALL SIX SESSIONS.**



# Classified

## Personals

**Congratulations to the new Panhellenic Officers:** President - Lanie Yonker, Vice President - Amy Goffarth, Secretary/Treasurer - Jill Gosnell. Good Luck to Panhellenic for a successful semester.

**Goo Goo,**  
There's nothing worse than an itchy chest. Maybe try scented baby oil.

Goo Goo's stick together!

**Billy,**  
Hey little brother! Hope your holiday break was tons-of-fun! Here's to a great semester! See you 'round!

Love,  
Your Big Sis, Kel

**Hey Moppins,**  
I don't want to hear another word about Greek Sing.

You know who

**Stacy,**  
Congrats on getting initiated little sister! Get psyched to party at Lambda Chi.

Love in Kappa Delta,  
Suc

**Happy Birthday Stephanie Leon!**

Love in AOT,  
Suc

**Janet, Sandy, Lori, Tricia, Mindy, Julie, Susan, Amy, Stacy, and Chris,**  
Congratulations! Kappa Delta new I's are awesome!

**Happy Birthday Larry Frans!**

**Eric,**  
Well I told you to read the paper! So here it is.  
**Happy birthday,** even though it is belated. Hope you enjoyed it. Don't be a stranger.

You know who

**Happy 24th Birthday Alan Hopkins!!!!**

Onion

**Abner,**  
Congratulations on becoming an initiate of Kappa Delta! Your an awesome 25% of the Giiiiirls and we are proud of you!! Get ready to party hard at Lambda Chi Alpha! Get it Girl! Get it Girl!! Oh and Mindy don't forget to catch the rhythm, we will be watching.

Love in AOT,  
50% Giiiiirls

Love in AOT,  
KD sisters

**Lambda Chi Alpha,**  
Get psyched for another awesome KD initiation party!

Ladies of Kappa Delta

**Stephanie,**  
Do you need an I.D. to buy wine coolers?? (Ha Ha!) We'll have to party like we used to (maybe the 26th like old times huh, huh?) We're going to be out of control!

**Andy, Cheryl, Beth, Mary, Jenny, and Leslie,**  
KD pledges are the BEST!!

Love in KD,  
Sister of Kappa Delta

Rockathon is just around the corner. Get Psyched!

Love in AOT,  
YBS

Oh! Lucky ball.....to be handled by Greg Saltee!

Congratulations to the Chi Omega new initiates: Jenny, Chera, Chris, Kim, T.J., Kelly, Karen, Lynda, Jennifer, Angela, Lena, and Amy!

**Hey Ladies!!**

Sigma Chi's 5th Annual Chippendales Ladies Night Out Party is Saturday March 2nd! Mark your calendars and get PSYCHED for a great evening!!!

**Angie B.,**

You are the best little sister in the whole wide world, don't ever change. Remember, I'm always here for you

LiCO,  
YBS

**The Pebble House loves our houseboy!!**

**Congrats to Sigma Chi's awesome New I's!!**

Love in AOT,  
Girl

Love,  
Little Sigmas

Chi Omega loves Michelle, Angie, and Susan!

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mon-thurs 4:00pm-9:30pm  
fri and sat 4:00pm-10:00pm  
sunday 12:00pm-9:00pm

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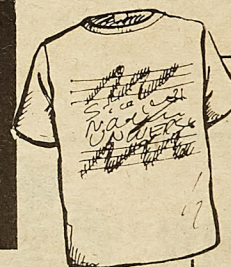
**ALEX'S**



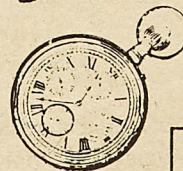
**TIME FOR  
SCHOOL  
SALE**



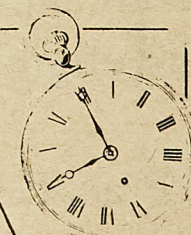
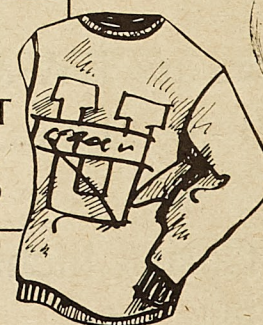
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# Sports

## "New York, New York!!!"

By Tom Hughes  
SPORTS EDITOR

It has been many years since Frank Sinatra wrote that song. Today it has become the theme song for the 25th Superbowl. This, the year of the silver anniversary, brings together two teams from New York.

Superbowl XXV will be a repeat of a hard fought week 15 match versus the Buffalo Bills and the New York Giants. If one remembers back to that game, it changed the season for both teams.

The Bills lost star quarterback Jim Kelly to a knee injury moments after the Giants lost their gritty quarterback Phil Simms to an ankle injury. Super subs Frank Reich and Jeff Hostetler finished out a 17-13 Buffalo victory.

Their roads to the Superbowl and a rematch of their regular season game took different paths. Kelly has returned for the play-offs, while Simms remains unable to play.

Since Kelly has returned two games ago, he is a combined 36-52-2 for 639 yards and 5 touchdowns. His no huddle offense has dismantled both the Miami Dolphins and the Los Angeles Raiders.

The Giant, on the other hand, have used a ball possession offense and a

tough hitting defense to earn their birth to the Superbowl. Their last second victory over San Francisco at Candlestick Park showed just how much character the Giants' football team has.

Buffalo is a team with great flash and flare. They have an equally high powered defense as they do an offense. One thing Buffalo has that San Francisco didn't is a rushing game. Thurman Thomas' rushing compliments Jim Kelly's passing exceptionally well.

On the other side of the ball, defense is how the Giants win. Lawrence Taylor is the Giants' heart and soul. The question will be asked again this week "How long can Jeff Hostetler keep on winning?"

Hostetler does not have Kelly's stats, but he has shown he can play near flawless football. He completes the big pass when it is needed. He needs Otis Anderson to have a big game to take some pressure off of his throwing game.

The Giants are trying to win their second Superbowl. The Buffalo Bills are making their first appearance ever in the Superbowl. Right now, both are playing tremendous ball.

This game should be a classic matchup of strength vs. hardwork. Flash and Flare vs. Character. Bills vs. Giants. New York vs. New York.

## Lady Miners split two games in MIAA conference play Play two road games this week before returning home on Saturday

By Tom Brown  
ASST. SPORTS EDITOR

### Lady Miners beat UMSL 84-73...

The Lady Miners took their 10-3 records to St. Louis this past Wednesday night to take on conference foe UMSL. UMSL has a high powered offense and leads the MIAA in point production with 90 points a game. With the Lady Miners averaging 83 points per game, a high scoring affair was bound to happen. The Lady Miners were not at full strength with the absence of senior co-captain Jen Schnur, who has missed the last several games with a broken bone in her hand.

UMR possesses one of the top defenses in the league, holding their opponents to 38% field goal shooting and this night would be no different. The "screamin" defense of the Lady Miners held UMSL to just 31% shooting for the game and caused 19 turnovers. The UMSL squad wouldn't let a few misses bother them as they attempted 24 more shots than UMR.

On the other end of the court, the Lady Miner squad showed why they lead the league in field goal percentage as they shot an impressive 61% connecting on 35-57 attempts.

As usual it was a balanced scoring attack that gave the Lady Miners an 84-73 victory, bringing their MIAA record to 4-0. Sophomore forward Stacy Mathes and senior guard Jan Grotenhuis paced the team with 16 points. They were followed in scoring by junior guard Suzanne Spencer and senior center Casey Engstrom who each chalked up 14 points.

Grotenhuis led the team in assists, dishing out 6 on the night. Mathes showed she could play the complete game as pulled down 9 rebounds, had 4 steals, 2 assists and went 4-4 from the charity stripe.

### ...but drop rematch to CMSU 59-55

Saturday night was a rematch between two of the top women's team in the MIAA, as the Lady Miners had to travel to Central Missouri State to take on the Jennies. In the earlier meeting, the UMR team came out on top defeating Central for a tournament championship by the score of 69-62. The two teams brought into the game almost identical records overall and both were undefeated in conference action.

Any team that enters the CMSU multi already faces a ten point deficit as being one of the toughest places to play, let alone win. This difference was

made up with the return of Schnur who decided to go ahead and play before she was advised to. Both teams struggled in the early going as neither team could find the mark. The Lady Miners took a much cherished two point lead into halftime, 27-25.

The game was a defensive battle all the way as the Lady Miners shot only 36% from the field, while the home town team fared a little better going 38%. Turnovers were high for both teams as we committed 23 and Central 27. It was continuously hard fought ball game but the Lady Miners came up short, falling to Central 59-55.

A notable difference in the two teams was the number of free throw attempts. Central recorded 13 more shots while making 11 more than the Lady Miners. Although the total points were well below their season average, senior co-captain Jan Grotenhuis didn't slow down as she scored 15 points, grabbed 5 boards, and handed out 4 assists.

This week the Lady Miners play Northeast Missouri State on Monday in the make-up contest and then head to the other end of the state to take on Missouri Southern on Wednesday. The Lady Miners return home from the four game road trip on Saturday, as they host Pittsburgh St., game time is 5:30. Good Luck Lady Miners!

## KEY SPORT FAN IN THE STANDS



Dave Libiez

This week's Fan in the Stands attended the Miner's basketball game Saturday vs. MO West. If this is you, come claim your prize at the Miner office, 103 Norwood, on Thursday at 4:30.

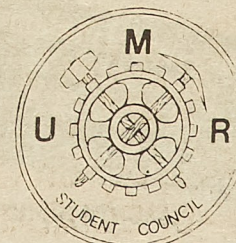
# Campus Organizations

## Funding Applications

are Now Available

Due:

## February 1





# Bruno's

Banquet Facilities Available  
Men's Night - Wednesday  
Ladies' Night - Thursday  
9:30 - 1:00

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EXPIRES

JANUARY 27, 1991

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Rolla

## THE FAR SIDE

By GARY LARSON



"I'm afraid it's bad news, Mr. Griswold. . . . The lab results indicate your body cavity is stuffed with a tasty, bread-like substance."



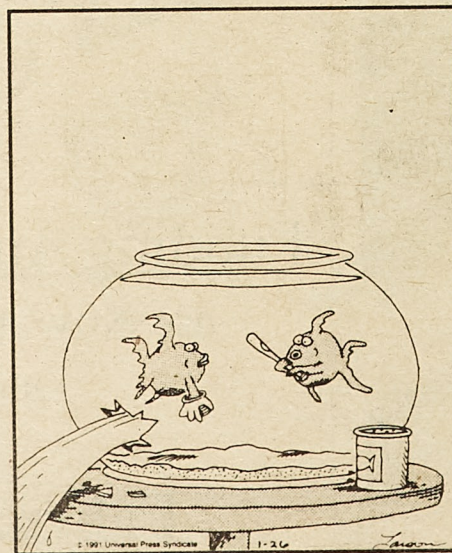
New York 1626: Chief of the Manhattan Indians addresses his tribe for the last time.



Whoa! Leftovers from last night's kill. Maybe I'll just go out.



Dang! Get inside, Ma! Blizzard's a-comin'!



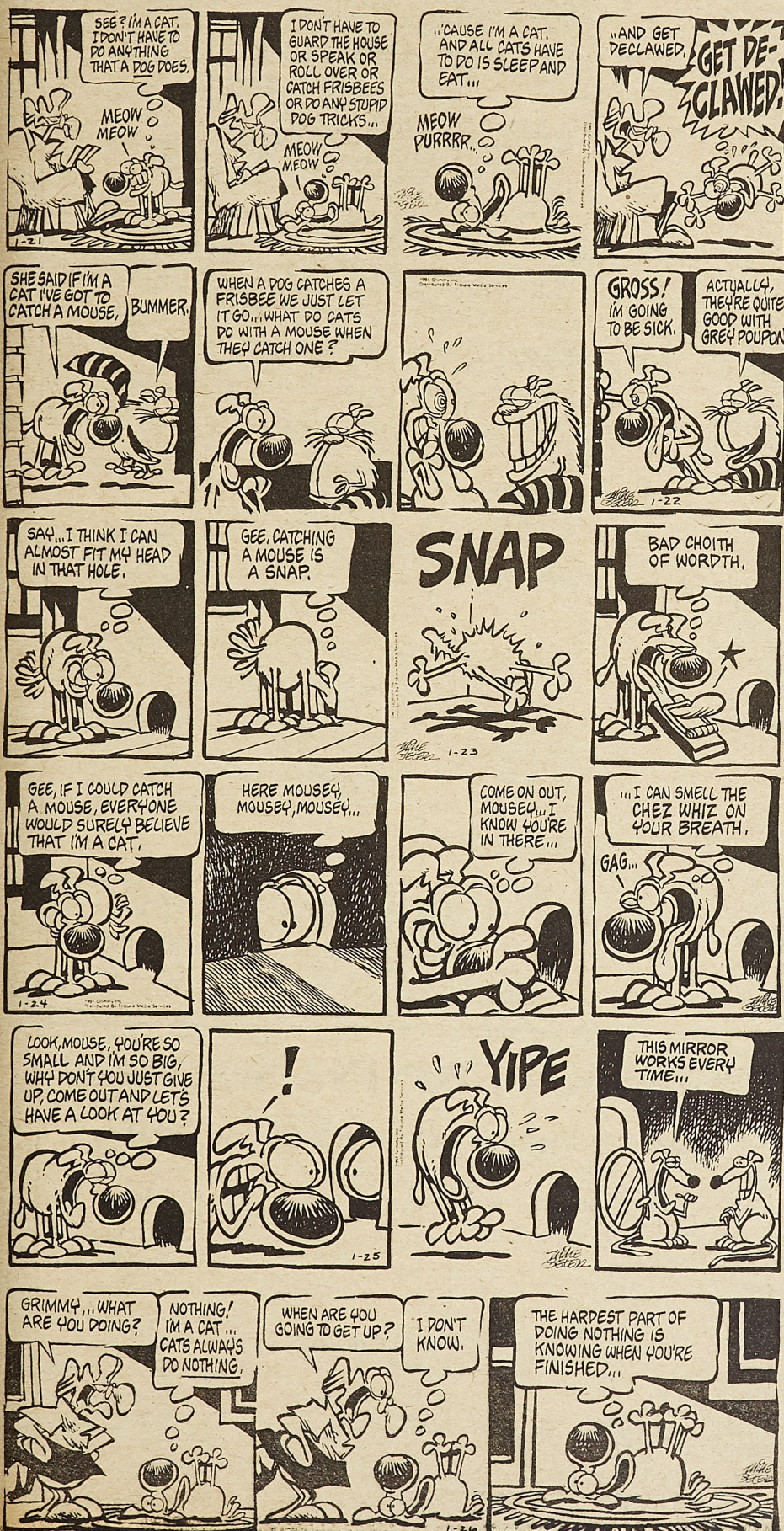
Lemmings on vacation





# Mother Goose & GRIMM

by Mike Peters



phone

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# Placement

UNIVERSITY OF MISSOURI-ROLLA  
PLACEMENT OFFICE  
Buehler Building, 9th & Rolla St.

## PERMANENT EMPLOYMENT

WEEKLY DETAIL LIST #2  
Week of February 11-15, 1991

SIGNUP LOCATION: G-3 Buehler Building  
SIGNUP HOURS: 7:45 to 11:15 a.m.  
1:00 to 4:15 p.m.

## PRESCREENED INTERVIEWS

For prescreening companies, qualified students must submit resumes in Room G-3, Buehler Building, prior to the deadline outlined. Resumes will be mailed to participating companies three weeks prior to their interview date, and they will select the students they wish to interview. Selectee's names will be posted on the bulletin boards in the signup area and in the appropriate departments. Posting of names will be done approximately two weeks before the interview date with a four-day deadline for signing.

LEVER BROTHERS COMPANY  
1400 North Pennsylvania  
St. Louis, MO 63133  
attn: Mr. Kirk Young, Mgr. Employee Relations

NUMBER OF SCHEDULES: 1  
MAJORS: BS/ChE, EE, ME  
POSITION: Manufacturing Supervisor, Staff Engineer or Project Engineer -- Complete details will be posted with interview signups.  
LOCATION: St. Louis  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 2.8  
CITIZENSHIP: Must must be legal to work in the U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 11, 1991

Note: One schedule = approximately 12 interview openings depending upon beginning and ending times of each interview schedule. Each company will vary in the number of schedules.

ABB POWER T&D COMPANY, INC.  
350 Sentry Parkway, Suite 220  
Building 630, Suite 220  
Blue Bell, PA 19422-2316  
attn: Mr. Bruce Purcell

NUMBER OF SCHEDULES: 1  
MAJORS: BS/EE, ME  
POSITION: Entry level Technical Marketing/Sales  
LOCATION: Nationwide, including midwest & north central region  
INTERVIEWING: December 1990, May, July 1991 grads  
MINIMUM G.P.A.: 2.8  
CITIZENSHIP: U.S. Citizenship or permanent resident visa

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 12, 1991

NOTE: STUDENTS SHOULD BRING A COMPLETED COPY OF THE ABB YOUR PERSONAL PREFERENCE AND DATA SHEET AND AN UNOFFICIAL TRANSCRIPT COPY TO THE INTERVIEW.

HUGHES AIRCRAFT COMPANY (Information Systems Division)  
P.O. Box 45066, C1/C128  
Los Angeles, CA 90045-0066  
attn: Ms. Melody Houghton, Personnel Analyst

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS/Math, Physics, Computer Science  
POSITION: Positions in the Denver Division: Data & Communications systems hardware & software design development, operations, and maintenance, satellite ground equipment design & operations, and systems design and operations. (Complete details will be available with interview signups.)  
LOCATION: East Denver, Colorado metro area  
INTERVIEWING: May, July 1991 grads  
CITIZENSHIP: U.S. Citizenship required because government contracts warrant security clearances.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 12, 1991

U.S. DEPT. OF TRANSPORTATION/F.A.A.  
601 E. 12th St., (ACE - 450A)  
Kansas City, MO 64106  
attn: Ms. Terry Miller, Administrative Officer

NUMBER OF SCHEDULES: 1-EE; 1-CE  
POSITIONS: Electronics - Field Installation Eng.  
4 state region (KS, MO, IA, NE)  
Civil - Resident Engineers  
(4 state region)  
INTERVIEWING: May 1991 grads  
CITIZENSHIP: U.S. Citizenship required

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 12, 1991

TEXAS INSTRUMENTS, INC.  
MS 3951, P.O. Box 650311  
7839 Churchill Way  
Dallas, TX 75265  
attn: Mr. Steffani Vann

NUMBER OF SCHEDULES: 1 ea day, Feb. 12, 13  
Feb. 12 - Semiconductor Technical Sales Representative  
Feb. 13 - Semiconductor Marketing Specialist  
MAJORS: BS/Computer Science with hardware undergrad, BS/EE

POSITION: Semiconductor Technical Sales Representative - strategic long term representation of semiconductor components at major electronic manufacturers nationwide; Semiconductor Marketing Specialist - develop in-depth understanding of customer and equipment by major sub-segment and match Texas Instruments semiconductor technology to those segments.

LOCATION: Feb. 12 - Major city in North America  
Feb. 13 - Dallas/Houston, TX

INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 3.0

CITIZENSHIP: Applicants must be presently authorized to work full-time in the U.S. Interview appointments will not be granted to individuals presently possessing or who are eligible for practical training authorization only.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATES: February 12, 13, 1991

CONOCO, INC./RESEARCH & ENGINEERING/REFINING N. AMERICA  
600 N. Dairy Ashford, MA 1105  
Houston, TX 77079  
attn: Ms. Gail P. Ambres, Recruiting Assistant

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS CE, ME  
POSITION(s): Civil & Mechanical Eng.  
LOCATION: Ponca City, OK  
INTERVIEWING: May, July 1991 grads  
CITIZENSHIP: Applicants must presently be authorized to work in the U.S. on a full-time regular basis.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 13, 1991

CONOCO, INC./RESEARCH & ENGINEERING/REFINING N. AMERICA  
600 N. Dairy Ashford, MA 1105  
Houston, TX 77079  
attn: Ms. Gail P. Ambres, Recruiting Assistant

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS Metallurgical Engineering, Materials Science or related fields.  
POSITION(s): Metallurgical Engineer  
LOCATION: Ponca City, OK  
INTERVIEWING: May, July 1991 grads  
CITIZENSHIP: Applicants must presently be authorized to work in the U.S. on a full-time regular basis.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 14, 1991

## QUALITY CLEANERS

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## MARRIOTT DINING SERVICE

### Weekly Menu - JANUARY 24 - 30, 1991

#### UCE- LUNCH

THURSDAY 24	FRIDAY 25	MONDAY 28	TUESDAY 29	WEDNESDAY 30
Chopped steak w/ mushroom gravy	Grilled Chicken Livers & Onion	Country Fried Steak	BBQ Beef Brisket	Broccoli Stuffed Pollack
Chicken stir fry	Brilled Pollack w/ sauteed veg.	Monte Cristo Sandwich	Carved Turkey	Charbroiled Chicken Sandwich
Baked Ham	Beef Noodle Casserole	Chicken and Noodles	Spaghetti w/ Meat Sauce	Ham & Beans w/ Cornbread

#### Rayl and TJ Cafeteria

Thursday (24)	Friday (25)	Saturday (26)	Sunday (27)	Monday (28)	Tuesday (29)	Wednesday (30)
<b>LUNCH:</b>						
BBQ Ham Sandwich Chicken & Dumplings Taco Salad	Hamburgers Hungry Jack Casserole Cheese Ravioli	Grilled Cheese & Chili Turkey Tetrazzini Waffles	BBQ Ribs Jumbo Cheese Dogs Pancakes with sausage paties	Sloppy Joes Chili Nachos Bacon Quiche	Pepperoni & Sausage Pizzas Chicken Noodle Casserole Chef Salad	Hot Turkey Sandwich American Lasagna Pancakes
<b>DINNER:</b>						
Chicken Fried Steak Pork Fried Rice Ham & Beans w/ cornbread	Batter Dip Fish Beef Pot Pie Mozzarella	Pork Fritters French Bread Pizzas Stuffed Peppers		Turkey Dvian Sweet & Sour Pork Polish Sausage w/sau- erkraut	Hot Beef Sandwich Liver & Onions Tacos	STEAK NIGHT Shrimp Platter Bacon Double Burgers



UNION CARBIDE CHEMICALS & PLASTICS COMPANY, INC.  
Section M4556  
39 Old Ridgebury Road  
Danbury, CT 06817  
attn: Ms. Carol Collins, Staff Assistant, Prof. Empl.

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS ChE, BS/Chemistry  
POSITION/LOCATION: BS/ChE: Production Eng. (Victoria, TX or Charleston, WV)  
BS/MS ChE: Process Development, Process Design, Process Control Systems (West Virginia); Design (Victoria, TX); BS/Chemistry: Quality Control (New Orleans, LA; Charleston, WV).  
INTERVIEWING: SPRING/SUMMER 1991, DEC. 1991 grads  
MINIMUM G.P.A.: 2.8 PREFERRED  
CITIZENSHIP: U.S. Citizens or Permanent Residents  
NOTE: STUDENTS MUST BRING THE FOLLOWING TO THE INTERVIEW:  
1. A photocopy of their course transcript.  
2. The Union Carbide Chemicals & Plastics Brochure (including the completed questionnaire)

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 13, 1991

UNION PACIFIC RAILROAD  
1416 Dodge Street, Room 322  
Omaha, NE 68179  
attn: Mr. Roger Dillon, Mgr. Sourcing

NUMBER OF SCHEDULES: 1  
MAJORS: BS/CE, EE, ME  
POSITION: Management Trainee Program  
(Details will be posted with interview signups)  
LOCATION: Omaha, NE  
MINIMUM G.P.A.: 3.0  
CITIZENSHIP: Must be able to work in the U.S. legally

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 13, 1991

FORD MOTOR COMPANY  
Car Product Development  
20,000 Rotunda, Room 1007, Bldg. 3  
Dearborn, MI 48121

NUMBER OF SCHEDULES: 1  
MAJORS: BS/ME, ChE  
POSITION: Car Product Development  
Information will be available at time of interview signups.  
LOCATION: Southeastern Michigan  
INTERVIEWING: May, July 1991 grads  
CITIZENSHIP: U.S. Citizenship or Permanent Resident Visa Required

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 13, 1991

CARGILL, INC.  
5640 Brentlinger Drive  
Dayton, OH 45414  
attn: Mr. Tim O'Mara, Fructose Plant Supt.

NUMBER OF SCHEDULES: 2  
MAJORS: BS/ChE, ME, MetE  
POSITION: Production Management Positions with  
in Corn Wet Milling Soybean Crushing, Flour Milling,  
Salt Mining, Fertilizer and Chemical Products Divisions  
LOCATION: Nationwide  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 2.3  
CITIZENSHIP: U.S. Citizenship or Permanent Visa

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 14, 1991

WILLIAMS NATURAL GAS COMPANY  
P.O. Box 3288  
Tulsa, OK 74101  
attn: Ms. Retha Oliver

NUMBER OF SCHEDULES: 1  
MAJORS: BS/CE, ME, EE  
POSITION: Engineer I - details to be posted  
LOCATION: Tulsa, OK and possibly Enid, OK or Shawnee Mission, KS  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 2.8  
DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 14, 1991

BRING CURRENT COPY OF YOUR TRANSCRIPT TO THE INTERVIEW.

NATIONAL STEEL COMPANY  
20th & State St., MS-SPT  
Granite City, IL 62040  
attn: Mr. Michael Vincent

NUMBER OF SCHEDULES: 2  
MAJORS: BS/ChE, EE, ME, MetE  
POSITION: Management Associates  
LOCATION: Granite City Steel  
INTERVIEWING: May 1991 grads  
CITIZENSHIP: U.S. Citizenship required

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 14, 1991

B&V WASTE SCIENCE & TECHNOLOGY  
P.O. Box 30240  
Kansas City, MO 64112  
attn: Ms. Brooke Cranston

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS ChE, CE, ME, EE, GeolE, Geology  
POSITION(S): Civil & Environmental Engineers,  
Chemical Engineers & Geological Engineers, Geologists & Hydrogeologists  
LOCATION: Kansas City, Chicago, Philadelphia  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 2.75  
CITIZENSHIP: Must be legally authorized for U.S. employment

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 14, 1991

CIA  
P.O. Box 9013  
St. Louis, MO 63102  
attn: Mr. Wendell Lewis

NUMBER OF SCHEDULES: 2  
MAJORS: BS/EE, ME, AE, CE, NE, Economics  
POSITION(S): Engineers, Economic Analysts or Econometricians  
(Details will be posted with signups.)  
LOCATION: Northern Virginia/Washington, D.C. area  
INTERVIEWING: recent, Dec. 1990, May, July 1991 grads  
MINIMUM G.P.A.: 2.75+  
CITIZENSHIP: U.S. Citizenship required

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 14, 1991

OLIN  
120 Long Ridge Rd.  
Stanford, CT 06904  
attn: Ms. Leah Lethbridge

NUMBER OF SCHEDULES: 1  
MAJORS: PhD in ChE  
POSITION: Senior Development Engineer - Job description will be available at time of signups.  
LOCATION: Cheshire, CT or any of several Process Technology centers  
MINIMUM G.P.A.:  
CITIZENSHIP: Individuals legally authorized to work in the U.S. on a full time basis excluding practical training

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 14, 1991

U.S. DEPT. OF ENERGY-SOUTHWESTERN POWER  
P.O. Box 1619  
Tulsa, OK 74101  
attn: Mr. Colin Kelley, Chief Branch of Org. Pers.

NUMBER OF SCHEDULES: 1  
MAJORS: BS/EE  
POSITION: Entry-level Engineer (GS5 or GS7)  
LOCATION: Tulsa, OK  
INTERVIEWING: recent grads, DECEMBER 1990, MAY, JULY 1991 GRADS  
MINIMUM G.P.A.: 2.5  
CITIZENSHIP: U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 14, 1991

NORTH SUPPLY, DIV. OF UNITED TELECOM  
600 Industrial Parkway  
Industrial Airport, KS 66031  
attn: Ms. Ronda Cary

NUMBER OF SCHEDULES: 1  
MAJORS: BS/EE, ME  
POSITION: Telecommunications  
INTERVIEWING: Additional information is not available.  
MINIMUM G.P.A.:  
CITIZENSHIP:

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 14, 1991

U.S. DEPT. OF ENERGY  
Office of Personnel, AD 114.5  
1000 Independence Ave., SW  
Washington, D.C. 20585  
attn: Mr. Hank Collier, Personnel Staffing Specialist

NUMBER OF SCHEDULES: 1  
MAJORS: BS/ME, NE, EE, Economics, Math  
POSITION(S): Positions for ME, NE, EE, General Engineer, Economist, Statistician, or Mathematician (GS 5-7). Details will be posted with interview signups.  
LOCATION: Washington, D.C. or Germantown, MD  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 2.4  
CITIZENSHIP: U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 15, 1991

U.S. FEDERAL HIGHWAY ADMINISTRATION  
P.O. Box 1787  
209 Adams  
Jefferson City, MO 65102  
attn: Mr. Greg Eskijian

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS CE  
POSITION: Highway Engineering Training Program (27 months) then placed in an engineering position in agency.  
LOCATION: Nationwide - placement after training is generally elective.  
INTERVIEWING: Recent grads, Dec. 1990, May, July 1991 grads  
MINIMUM G.P.A.: 2.95 or member of honor society; 3.5 or higher in major at time of application, or last two years of school.  
CITIZENSHIP: U.S. CITIZENSHIP IS REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 15, 1991

WESTON SERVICES INC.  
3 Hawthorn Parkway, Suite 400  
Vernon Hills, IL 60061  
attn: Matt Crain

NUMBER OF SCHEDULES: 1  
MAJORS: BS/Civil Engineering (Construction)  
POSITION: Entry Level Engineer  
LOCATION: Vernon Hills (Chicago area)  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 2.50  
CITIZENSHIP: U.S. Citizenship required

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 15, 1991



TEXACO  
P.O. Box 1404  
Houston, TX 77251-1404  
attn: Ms. Sarah R. O'Dell, Mgr. Professional Employment

NUMBER OF SCHEDULES: 1  
MAJORS: BS/Comp Sci, ChE, EE, ME  
POSITION: Engineer - Process (ChE) - El Dorado, KS;  
Associate Programmer - (Comp Sci) - El Dorado, KS;  
Engineer - Automation & Instrumentation (ChE, EE) - El Dorado, KS;  
Operations Trainee - (CE, ME); TRMI Central Region Operations - Tulsa, OK;  
Engineer - Engineering (ME) - El Dorado, KS

INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 2.5  
CITIZENSHIP: U.S. Citizenship or Permanent Resident  
Visa Required - authorization to work in the U.S. on an unlimited basis required.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 15, 1991

#### WILLIAMS TELECOMMUNICATIONS

One Williams Center  
P.O. Box 21348  
Tulsa, OK 74121  
attn: Mr. Mike Williams, Human Resources Representative

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS EE  
POSITION: BS/EE Job Rotation Program  
LOCATION: Tulsa, OK  
INTERVIEWING: December 1990 or May 1991 grads  
MINIMUM G.P.A.: 3.0  
CITIZENSHIP: U.S. Citizenship or Permanent Resident

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 15, 1991

#### NON-PRESCREENED INTERVIEWS

##### ILLINOIS DEPT. OF TRANSPORTATION

2300 Dirksen Parkway  
Springfield, IL 62764  
attn: Ms. Sue Seppi, Employment Specialist

NUMBER OF SCHEDULES: 2  
MAJORS: BS/CE  
POSITION: Civil Engineer Trainee's  
LOCATION: Illinois - statewide  
INTERVIEWING: May 1991 GRADS  
MINIMUM G.P.A.: N/A

INTERVIEW SIGNUP DATE: Wednesday, January 30, 1991  
INTERVIEW DATE: February 13, 1991

##### HALLIBURTON SERVICES

P.O. Drawer 1431  
Duncan, OK 73536-0312  
attn: Ms. Gail Davis

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS ChE in Polymers & Coatings  
POSITION: BS/MS ME in High Pressure Jetting.  
Complete details will be available at time of interview signups.  
LOCATION: Duncan, OK  
INTERVIEWING: Dec. 1990, May, July 1991 grads  
MINIMUM G.P.A.: 2.5  
CITIZENSHIP: U.S. Citizenship or Permanent work permit required (No student visas)

INTERVIEW SIGNUP DATE: Wednesday, January 30, 1991  
INTERVIEW DATE: February 14, 1991

CANCELLATIONS: Naval Weapons Center, Corona, CA - Feb. 12  
Anheuser Busch - Feb. 13  
Shell Oil - Feb. 20, 21, 1991  
R.A. Behrmann - March 8  
Entergy - March 19

CHANGE IN INTERVIEW DATE: Chevron will interview on Feb. 27  
- Interview dates of Feb. 13, 14, 15, 1991 have been cancelled.

ADDITION -- INFORMATION AVAILABLE FOR BRADEN MFG.

##### BRADEN MFG.

P.O. Box 1229  
Tulsa, OK 74101  
attn: Ms. Sharon Lawrence

NUMBER OF SCHEDULES: 1  
MAJORS: BS/CE (Structural)  
POSITION: Structural Design Engineer for electricity generating power station components  
LOCATION: Tulsa, OK  
INTERVIEWING: recent grads or May, July 1991 grads  
MINIMUM G.P.A.:

DEADLINE FOR TURNING IN RESUMES: Thursday, January 17, 1991  
INTERVIEW DATE: February 7, 1991

#### PERMANENT EMPLOYMENT

WEEKLY DETAIL LIST #3  
Week of February 18-22, 1991

SIGNUP LOCATION: G-3 Buehler Building  
SIGNUP HOURS: 7:45 to 11:15 a.m.  
1:00 to 4:15 p.m.

#### PRESCREENED INTERVIEWS

For prescreening companies, qualified students must submit resumes in Room G-3 Buehler Building, prior to the deadline outlined. Resumes will be mailed to participating companies three weeks prior to their interview date, and they will select the students they wish to interview. Selected names will be posted on the bulletin boards in the signup area and in the appropriate departments. Posting of names will be done approximately two weeks before the interview date with a four-day deadline for signing.

##### BIBB AND ASSOCIATES

6750 Antioch  
Shawnee Mission, KS 66203  
attn: Ms. Betty Curley, College Relations

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS CE, EE, ME, Structural  
POSITION: Looking for strong course work in power, instruments and controls, HVAC, and structure design.  
LOCATION: Shawnee Mission, KS  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 2.8  
CITIZENSHIP: U.S. Citizenship or Permanent Resident Visa Required

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 18, 1991

NOTE: Information is not available for

General Motors (interview dates: Feb. 19-21)

##### DYNETICS

P.O. Drawer B  
Huntsville, AL 35814-5050  
attn: Ms. Donna Teller

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS/PhD EE, Comp Sci, Math, Physics  
POSITION: Entry-level  
LOCATION: Huntsville, AL  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 3.0  
CITIZENSHIP: U.S. Citizenship required

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 18, 1991

##### MISSOURI HIGHWAY & TRANSPORTATION

P.O. Box 270  
Jefferson City, MO 65101  
attn: Mr. Mel Gardner

NUMBER OF SCHEDULES: 2  
MAJORS: BS/CE  
POSITION: Design, Construction, Traffic, Materials, Structures  
LOCATION: Statewide  
INTERVIEWING: May, July 1991 grads

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATES: February 19, 20, 1991

##### ALCOA

P.O. Box 3567  
Davenport, IA 52808  
attn: Ms. Judy Shook, Administrative Secretary

NUMBER OF SCHEDULES: 1 - BS/MS EE; 1-BS/MS ME  
POSITION: ME: Assigned as an Associate Engineer to a main production area with responsibility for several production machines within the area. More complete details will be available at time of interview signups.  
EE: Work in such areas as plant process control systems, process computer control and new technology design and implementation. Details will be available.  
LOCATION: Nationwide  
INTERVIEWING: May, July 1991 grads  
CITIZENSHIP: U.S. Citizenship or Permanent Visa

BRING A COPY OF YOUR TRANSCRIPT TO THE INTERVIEW.  
DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 19, 1991

##### EXXON

P.O. Box 2283  
Houston, TX 77251-2283  
attn: Mr. Doug Brockhaus  
Monterey Coal Company

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS ChE, ME, Mining Eng, PE, Geol. Eng.  
POSITION(S): ChE: Refining, Research & Eng., Production, or Marketing;  
ME: Refining/Chemicals, Research & Engineering, Production, Marketing, Pipeline or Mining;  
PE, Natural Gas, Geol Eng.: Production; Mining Eng.: Mining (Complete job descriptions will be posted for all areas of Exxon.)  
LOCATION: Nationwide - predominately Texas, Louisiana, and New Jersey  
INTERVIEWING: Dec. 1990, May, July 1991 grads  
MINIMUM G.P.A.: Prefer GPA of "B" or above.  
CITIZENSHIP: U.S. Citizenship or Permanent Resident

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 19, 1991

STUDENTS SHOULD BRING COMPLETED EXXON APPLICATION AND COPY OF TRANSCRIPT TO INTERVIEW.



**PROCTER & GAMBLE R&D PRODUCT DEVELOPMENT**  
2 Procter & Gamble Plaza  
Cincinnati, OH 45202-3314  
attn: Ms. Janice Battle, Recruiting Operations Manager

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS ChE; MBA with BS in ChE or Chem  
POSITION: Process Development, Products Research,  
or Packaging Development  
(Details will be posted at time of  
interview signups.)  
LOCATION: Cincinnati, OH  
INTERVIEWING: December 1990, May, July 1991 grads  
CITIZENSHIP: Must be a U.S. Citizen, a permanent  
resident, refugee, or asylee immigrant, or a temporary  
resident admitted under the amnesty program of the 1986  
immigration act.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 19, 1991

**GENERAL ELECTRIC AEROSPACE**  
GE ACSD  
P.O. Box 5000  
Room 373  
Binghamton, NY 13902  
attn: Mr. Avijit J. Gupta

NUMBER OF SCHEDULES: 1-Feb. 20, 1-Feb. 21  
MAJORS: BS/MS EE, Comp Sci, Math, Physics  
POSITION/PROGRAM: Careers in a variety of high tech.  
areas including communications, sensing, microwave,  
infrared and optoelectronics, microelectronics, signal  
and data processing, computer software, artificial  
intelligence, structures and mechanical design, controls,  
power and electrical design and computer aided design,  
manufacture and test.  
LOCATION: Various -- Details will be posted.  
INTERVIEWING: May, July 1991 grads  
CITIZENSHIP: GE Aerospace will consider for employ-  
ment only U.S. Citizens who have evidence of their auth-  
orization to work in the U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATES: February 20, 21, 1991

**GE INDUSTRIAL & POWER - POWER GENERATION SERVICES DEPT.**  
12837 Flushing Meadow  
St. Louis, MO 63131  
attn: Mr. Jim Doyle

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS ME, AE  
POSITION: Field Engineering - 12-18 Month  
Training Program provides business & technical skills  
for engineers to operate confidently and independently.  
Training includes 4-5 months at I&PS Training & Develop-  
ment Center followed by individualized training assign-  
ments in field locations. Extensive travel is required.  
LOCATION: Various locations throughout the U.S.  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 2.8  
CITIZENSHIP: GE will consider for employment all  
persons who have evidence that they are authorized to  
work in the United States for an indefinite period and  
who are available for full-time positions for unspecified  
duration.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 20, 1991

**STUDENTS MUST PROVIDE THE INTERVIEWER A COMPLETED GE PERSONAL  
INFORMATION FORM CONTAINED IN THE GE OPPORTUNITIES BROCHURE.**

**GENERAL ELECTRIC MANUFACTURING MANAGEMENT PROGRAM**  
GE LIGHTING  
P.O. Box 71  
Bucyrus, OH 44820  
attn: Mr. Gerald Dolan

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS EE, ME  
POSITION: Manufacturing Management Program  
(MMP) - two-year entry level program to expand the  
competence of outstanding engineers desiring a career in  
technical leadership. More complete details will be posted.  
LOCATION: Various; geographic moves on Program  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: MUST BE IN TOP QUARTER OF CLASS;  
Manufacturing/Engineering work experience  
CITIZENSHIP: GE will consider for employment all  
persons who have evidence that they are authorized to work  
in the U.S. for an indefinite period and who are available  
for full-time positions for an unspecified duration.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 20, 1991

**STUDENTS MUST PROVIDE THE INTERVIEWER A COMPLETED GE PERSONAL  
INFORMATION FORM CONTAINED IN THE GE OPPORTUNITIES BROCHURE.**

**GENERAL ELECTRIC TECHNICAL SALES PROGRAM**  
GE I&PS/USD  
10550 Barkley  
Overland Park, KS 66201  
attn: Mr. Mike Morris

NUMBER OF SCHEDULES: 1  
MAJORS: BS/EE, ME, Power Eng.  
POSITION: Sales Engineer Trainee  
Technical Sales Program: Provides on-the-job assignments  
in field sales offices and product businesses and includes  
sales and marketing courses given by GE's Management Develop-  
ment Institute. Program requires geographic flexibility.  
LOCATION: Various  
INTERVIEWING: Dec. 1990, May, July 1991 grads  
MINIMUM G.P.A.: ACADEMIC STANDING MUST BE IN UPPER  
THIRD OF CLASS.  
CITIZENSHIP: GE will consider for employment all  
persons who have evidence that they are authorized to work  
in the U.S. for an indefinite period and who are available  
for full-time positions for an unspecified duration.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 20, 1991

**GENERAL ELECTRIC -- continued**  
PLEASE NOTE: It is permissible to sign up to interview with  
more than one business program. EACH INTERVIEW CANDIDATE  
MUST FILL OUT A GE PERSONAL INFORMATION FORM FOR EACH INTER-  
VIEW SCHEDULED.

**WESTINGHOUSE ELECTRIC CORPORATION**  
Westinghouse Building, Gateway Center  
Pittsburgh, PA 15222  
attn: Mr. Erle Johnson, Manager, University Programs

NUMBER OF SCHEDULES: 2 - ea day, Feb. 19, 20  
Schedule #1 - BS/EE, ME or Eng. Mgt. for Technical Sales/  
Marketing - Serve as a technical expert on Westinghouse  
products. Requires a 2.5 G.P.A. or better. Location:  
Nationwide. PLEASE INDICATE DIVISION ON RESUME.

Schedule #2 - BS/ME, EE, NE for Engineering - Product  
Design, Applications Project Engineering. Prefer a 3.2  
G.P.A. or better. Location: West, Nationwide. PLEASE  
INDICATE DIVISION ON RESUME.

**STUDENTS MUST COMPLETE THE WESTINGHOUSE "CAREER PREFERENCES  
VALUES WORKSHEET" PRIOR TO THE INTERVIEW.**

INTERVIEWING: May, July 1991 grads  
CITIZENSHIP: All candidates must be legally authorized,  
at the time of interview, to work full-time in the U.S.  
Many of the positions require U.S. Citizenship because of  
security clearance.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATES: February 19, 20, 1991

**WESTINGHOUSE-SAVANNAH RIVER CO.**  
Building 719-4A  
Aiken, SC 29808  
attn: Ms. Jackie Shields, Professional Staff

NUMBER OF SCHEDULES: 1 ea day, Feb. 19, 20  
MAJORS: Engineering  
POSITION: Various  
LOCATION: Savannah River Site, Aiken, SC  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 3.0  
CITIZENSHIP: U.S. Citizens ONLY

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATES: February 19, 20, 1991

**OSCAR MAYER**  
P.O. Box 7188  
Madison, WI 53707  
attn: Ms. Ruth McPike, Administrative Assistant

NUMBER OF SCHEDULES: 1  
MAJORS: BS/ME, EE  
POSITION: Eng. Mgt. Development Trainee  
LOCATION: Relocation is a requirement. In Madison  
for 6-9 months  
INTERVIEWING: May 1991 grads  
MINIMUM G.P.A.: 2.75  
CITIZENSHIP: U.S. Citizenship - Permanent Resident

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 20, 1991

**COOPER INDUSTRIES**  
First City Tower - Suite 4000  
P.O. Box 4446  
Houston, TX 77210  
attn: Mr. Scot Clydesdale, Personnel Dept.

NUMBER OF SCHEDULES: 3  
MAJORS: BS/ME, EE, Ceramic Eng.  
POSITION: Manufacturing Training Program,  
Advanced Engineering Training Program, Engineering  
Management Training Program -- Complete details will be  
posted with interview signups.  
LOCATION: Nationwide  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 2.5

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 21, 1991

**OLIN CORPORATION**  
427 N. Shamrock Street  
East Alton, IL 62024  
attn: Ms. Cheryl Bednar

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS/ChE; BS/ME  
POSITIONS/LOCATION: Too detailed to list -- will be  
available with interview signups  
MINIMUM G.P.A.: Prefer B average  
CITIZENSHIP: Individuals must be presently authorized  
to work in the U.S. on a full-time basis.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 21, 1991

**ADM CORPORATION**  
P.O. Box 1470  
Decatur, IL 62525  
attn: Ms. Sheila Witts-Mannweiler

NUMBER OF SCHEDULES: 1  
MAJORS: BS/ChE  
POSITION: Production Assistant  
LOCATION: Midwest  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: 2.7  
CITIZENSHIP: U.S. Citizenship or Permanent work Permit

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 21, 1991



**SUNNEN**  
7910 Manchester  
St. Louis, MO 63143  
attn: Ms. Jean Miller, Manager Employment

NUMBER OF SCHEDULES: 1  
MAJORS: BS/EE, ME, CerEng  
POSITION: Engineering Loopers (Loopers have the opportunity to learn and experience the total manufacturing process before receiving a regular assignment.) Complete details will be posted at time of interview signups.  
LOCATION: St. Louis, MO  
INTERVIEWING: May, July 1991 grads  
CITIZENSHIP: U.S. Citizenship or Permanent Visa

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 22, 1991

#### NON-PRESCREENED INTERVIEWS

Signups for those companies not participating in prescreening will be held approximately two weeks prior to the interview date. Signups will be put out on a first-come, first-served basis; no priorities. Morning signups will be for morning interviews; afternoon signups will be for afternoon interviews. Back-up lists will be available for those students unable to obtain an interview.

**INLAND STEEL COMPANY**  
3210 Watling Street  
East Chicago, IN 46312  
attn: Ms. Gayla DeArmond, Department Coordinator

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS Metallurgical Engineering  
POSITION: Associate Engineer  
LOCATION: Details will be posted with signups.  
INTERVIEWING: Indiana Harbor Works  
MINIMUM G.P.A.: May 1991 grads  
CITIZENSHIP: n/a  
Inland will interview all interested students authorized to work in the U.S. on a full-time basis.

INTERVIEW SIGNUP DATE: Wednesday, February 6, 1991  
INTERVIEW DATE: February 21, 1991

NOTE: STUDENTS MUST HAVE TRANSCRIPTS.

**HARRIS CORPORATION/BROADCAST DIVISION**  
1025 W. Nasa Blvd.  
Melbourne, FL 32919  
attn: Ms. Marilnette Thompson

NUMBER OF SCHEDULES: 1  
MAJORS: BS/EE  
POSITION: Electrical Engineer  
LOCATION: Quincy, IL  
INTERVIEWING: May, July 1991 grads  
MINIMUM G.P.A.: Prefer 3.0 or greater  
CITIZENSHIP: U.S. Citizenship or permanent residency is required for most positions.

INTERVIEW SIGNUP DATE: Wednesday, February 6, 1991  
INTERVIEW DATE: February 22, 1991

INTERVIEW DATE CHANGED...

**TEXAS INSTRUMENTS, INC. (SEMICONDUCTOR SALES GROUP)**  
Will interview on Feb. 18, 19, 1991. Original interview date: Feb. 12, 13, 1991.

#### SIGNUPS FOR McDONNELL DOUGLAS MISSILE SYSTEMS CO. WILL BE HELD WEDNESDAY, JAN. 23, 1991

**McDONNELL DOUGLAS MISSILE SYSTEMS CO.**  
414 McDonnell Blvd.  
Hazelwood, MO 63047  
attn: Ms. JoAnn Hailey

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS Computer Science  
POSITION: Details are not available.  
LOCATION: St. Louis  
INTERVIEWING: December 1990, May or July 1991 grads  
CITIZENSHIP: U.S. Citizenship is required for most positions due to security classification requirements with the U.S. Government

DEADLINE FOR TURNING IN RESUMES: Wednesday, Jan. 23, 1991  
INTERVIEW DATE: February 8, 1991

## Co-op Employment

February, 1991

#### CO-OP EMPLOYMENT OPPORTUNITIES

**Sign-up location:** 101 Buehler Bldg.  
Co-op Office  
9th & Rolla Sts.

**Sign-up hours:** 7:45 am - 11:00 am  
1:00 pm - 3:00 pm

\*\*\*\*\*

Interview date: Wed., Feb. 6, 1991

**MONSANTO CHEMICAL COMPANY**  
Locations: Nationwide

Interviewing: Ch.E.

Requirements: 2.5 GPA or above. Prefer authorization to work full time in US. Academic level of applicants: at least 30 credit hours completed at the end of the present semester.

Sign-up date: Wed., Jan. 23, 1991

start work summer or fall 91

1 schedule - 12 interview openings

\*\*\*\*\*

Interview date: Thurs., Feb. 7, 1991

**UNION ELECTRIC**  
St. Louis, Missouri

Interviewing: C.E., M.E., E.E., Nuc., Ch.E., Mgmt.  
Ch.E.

Requirements: 2.5 GPA or above. Must be legally eligible to work in US. Academic level of applicants: at least 70 credit hours completed at the end of the present semester. Must have completed some of the 1st semester junior courses.

Sign-up date: Thurs., Jan 24, 1991

2 schedules - 26 interview openings

\*\*\*\*\*

Interview date: Tues., Feb. 11, 1991

**ASSOCIATED ELECTRIC C.I. MINING DIVISION**  
Clifton Hill, MO

Interviewing: C.E., Geology, Geo.E.,  
M.E., Mining

Requirements: 2.0 GPA or above. Eligible to work in the US. Academic level of applicants: at least 29 credit hours completed at the end of the present semester.

Sign-up date: Monday, Jan. 28, 1991

1 schedule - 13 interview openings

start work: summer 91, fall 91, or spring 92

\*\*\*\*\*

Interview date: Tuesday, Feb. 12, 1991

**BROWN SHOE COMPANY**  
Work locations: Primary - Fredericktown, MO and Pocahontas, AR; Secondary - Cabool, MO., Houston, MO., Mountain Grove, MO., Dixon, MO., Owensville, MO., Fredericktown, MO., Charleston, MO., Bernie, MO., Caruthersville, MO., Pocahontas, AR., Union City, TN., Dyer, TN., Lexington, TN., Selmer, TN., Savannah, TN.

Interviewing: E.E., Mgmt., M.E.

Requirements: 2.0 GPA or above. Academic level of applicants: at least 45 credit hours completed at the end of the present semester.

Sign-up date: Tuesday, January 29, 1991

start work - summer 91, fall 91, spring 92

2 schedules - 22 interview openings

\*\*\*\*\*



Interview date: Tuesday, Feb. 12, 1991

DOW CHEMICAL  
Texas, Michigan and Louisiana  
Interviewing: Ch.E.

Requirements: 2.8 GPA or above. Permanent resident visa. Academic level of applicants: at least 29 credit hours completed at the end of the semester. 45 hours minimum for Texas location.

Sign-up date: Monday, January 25, 1991

1/2 schedule - 7 interview openings

\*\*\*\*\*

Interview date: Tuesday, Feb. 12, 1991

CENTRAL INTELLIGENCE AGENCY  
Work locations: Northern Virginia/Washington, DC area

Interviewing: A.E., Math., C.E., C.Sc., E.E.,  
M.E., Physics

Requirements: 2.75 gpa or above. US Citizenship required. Academic level of applicants: at least 45 credit hours completed at the end of the present semester.

Sign-up date: Wed., January 30, 1991

Start work: fall 91

2 schedules - 24 interview openings

\*\*\*\*\*

Interview date: Thurs., Feb. 14, 1991

ANHEUSER BUSCH  
St. Louis, MO

Interviewing: E.E., M.E.

Requirements: 2.8 GPA or above. Permanent Resident status. Academic level of applicants: 4-5 semesters completed at the end of the present semester.

Sign-up date: Thurs., Jan. 31, 1991

1 schedule - M.E. 13 interview openings  
1 schedule - E.E. 13 interview openings

\*\*\*\*\*

Interview date: Friday, Feb. 15, 1991

LITTON INDUSTRIES  
Springfield, Missouri

Interviewing: Ch.E., Chem., E.E., M.E.

Requirements: 2.5 GPA or above. Academic level of applicants: at least 30 credit hours completed at the end of the present semester.

Sign-up date: Friday, Feb. 1, 1991

start work summer 91

1 schedule - 10 interview openings

\*\*\*\*\*

Interview date: Tuesday, Feb. 19, 1991

ANHEUSER BUSCH  
St. Louis, Missouri

Interviewing: C.E., M.E., Eng.Mgmt., C.Sc., E.E.

Requirements: 2.8 GPA or above. Permanent Resident status. Academic level of applicants: at least 4-5 semester completed at the end of the present semester.

Sign-up date: Tues., Feb. 5, 1991

2 schedules - 26 interview openings

\*\*\*\*\*

Interview date: Friday, Feb. 15, 1991

BUSSMANN  
Ellisville (St. Louis County), MO

Interviewing: E.E.

Requirements: 2.5 GPA or above. U.S. Citizenship. Academic level of applicants: at least 45 credit hours completed at the end of the present semester.

Sign-up date: Friday, Feb. 1, 1991

1 schedule - 13 interview openings

start work fall 91

\*\*\*\*\*

Interview date: Friday, Feb. 15, 1991

CHEVRON USA INC.  
New Orleans and Lafayette, Louisiana

Interviewing: Ch.E., C.E., E.E., M.E.

Requirements: 2.7 GPA or above. US Citizenship required. Academic level of applicants: at least 30 credit hours completed at the end of the present semester.

Sign-up date: Friday, Feb. 1, 1991

start work summer 91 or fall 91

1 schedule - 12 interview openings

\*\*\*\*\*

Interview date: Tues., Feb. 19, 1991

GENCORP AUTOMOTIVE  
Batesville, Arkansas

Interviewing: M.E.

Requirements: 2.5 GPA or above. American Citizenship required. Academic level of applicants: at least 59 credit hours completed at the end of the present semester.

Sign-up date: Tues., Feb. 5, 1991

1 schedule - 14 interview openings

1 hour interviews

start work fall 91.

\*\*\*\*\*

Interview date: Wed., Feb. 20, 1991

MONSANTO COMPANY  
Work locations: St. Louis, MO., Cincinnati, OH.,  
Chicago, IL., New Orleans, LA

Interviewing: C.Sc.

Requirements: 3.0 GPA or above. US Citizenship. Academic level of applicants: at least 60 credit hours completed at the end of the present semester.

Sign-up date: Wed., Feb. 6, 1991

start work july-dec. 1991

1 hour interviews

1 schedule - 12 interview openings

Monsanto will hold an informational meeting on Tuesday, Feb. 19, 1991 in the Univ. Center east - 214 Mark Twain Room. 6:00 pm - 7:00 pm. All student interviewing with Monsanto must attend.

\*\*\*\*\*

Interview date: Wed., Feb. 20, 1991

INLAND STEEL  
E. Chicago, Indiana

Interviewing: M.E., Met., E.E.

Requirements: 2.4 or above. sophomores or juniors. must be able to work at least 3 work sessions.

Sign-up date: Wed., Feb. 6, 1991

1 schedule - 13 interview openings

\*\*\*\*\*



Interview date: Thurs., Feb. 21, 1991

ALCO CONTROLS  
St. Louis, Missouri

Interviewing: Eng.Mgmt.

Requirements: 2.75 GPA or above. Academic level of applicants: at least 59 credit hours completed at the end of the present semester.

Sign-up date: Thurs., Feb. 7, 1991

start work summer 91

1 schedule - 10 interview openings

\*\*\*\*\*

Interview date: Wed., Feb. 20, 1991

OLIN CORPORATION  
E. Alton, Illinois

Interviewing: C.Sc., M.E., Met.E.

Requirements: 2.5 GPA or above. Permanent resident visa. Academic level of applicants: at least 59 credit hours completed at the end of the present semester.

Sign-up date: Friday, Feb. 8, 1991

start work summer 91

1 schedule - 13 interview openings

\*\*\*\*\*

SQUARE D COMPANY  
Cedar Rapids, Iowa

Interviewing: Mgmt., M.E., E.E.  
(Manufacturing and high tech lab)

Requirements: 2.0 GPA or above.

Turn in resumes: Monday, Feb. 11, 1991

RESUMES ONLY. IF YOU WOULD LIKE TO BE CONSIDERED FOR CO-OP EMPLOYMENT WITH THE ABOVE COMPANY, PLEASE TURN IN A COPY OF YOUR CO-OP RESUME TO THE CO-OP OFFICE ON THE ABOVE DATE.

\*\*\*\*\*

Interview date: Monday, Feb. 25, 1991

PSI ENERGY (formerly Public Service Indiana)  
Plainfield, Indiana

Interviewing: E.E., M.E.

Requirements: 2.75 GPA or above. Academic level of applicants: at least 45 credit hours completed at the end of the present semester.

Sign-up date: Monday, Feb. 11, 1991

start work summer 91

1 schedule - 12 interview openings

\*\*\*\*\*

Interview date: Wed., Feb. 27, 1991

HUSSMANN CORPORATION  
Bridgeton, MO (Suburb of St. Louis)

Interviewing: M.E.

Requirements: 2.8 GPA or above. Academic level of applicants: at least 30 credit hours completed at the end of the present semester. American Citizenship open: valid work permit required if non-U.S. citizen.

Sign-up date: Wed., Feb. 13, 1991

start work fall 91

1 scheule - 12 interview openings

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# SPECIAL NOTICE - PRESCREENING

## SIGN-UP FOR DEERE AND COMPANY CO-OP INTERVIEWS

TURN IN RESUMES: Monday, January 28, 1991

WHERE: Co-op Office, 101 Buehler Bldg.

TIMES: 7:45 am - 11:30 am - 1:00 pm - 4:00 pm

INTERVIEWING: E.E., M.E.,

REQUIREMENTS: Prerequisites are second semester freshman status with cumulative GPA of 2.7/4.0, or sophomore status with cumulative GPA of 2.5/4.0. Permanent resident status

THE ACTUAL INTERVIEW DATE WILL BE TUESDAY, FEBRUARY 12, 1991.

Deere would like students to work 4-5 periods before graduation.

Deere and Company, Moline, Illinois has requested that we furnish them with resumes for pre-screening. We will accept as many Co-op resumes as we can collect. Just drop off a copy of your Co-op resume on the above sign-up date. After pre-screening, Deere and Co. will send the Co-op Office a list of those students they are interested in interviewing. The list should be posted in the UMR Co-op Office by Thurs., Feb. 7. Check with the Co-op Office no later than Feb. 7.

## SIGN-UP MOBIL OIL COMPANY CO-OP INTERVIEWS

TURN IN RESUMES: Tuesday, January 29, 1991

WHERE: Co-op Office, 101 Buehler Bldg.

TIMES: 7:45 am - 11:30 am - 1:00 pm - 4:00 pm

INTERVIEWING: C.Sc.

REQUIREMENTS: 2.5 GPA or above. Must be able to work in the US. Academic level of applicants: at least 40 credit hours completed at the end of the present semester.

THE ACTUAL INTERVIEW DATE WILL BE Tues., Feb. 12, 1991.

Mobil Oil, Kansas City, Missouri has requested that we furnish them with resumes for pre-screening. We will accept as many CO-OP resumes as we can collect. Just drop off a copy of your CO-OP resume on the above sign-up date. After pre-screening, Mobil will send the Co-op Office a list of those students they are interested in interviewing. The list should be posted in the UMR Co-op Office by Thurs., Feb. 7. Check with the Co-op Office no later than Feb. 7.

NOTE: The ones that indicate RESUMES ONLY. This means the company will not be on campus interviewing, but they want resumes to review and should contact you if they are interested in employing you.

Please let the Co-op Office know immediately of any acceptance of an offer.

Please check with the Co-op Office periodically to see if additional companies have scheduled interviews. These will be posted on the bullet board by the Co-op Office and printed in the Miner Newspaper.



## SPECIAL NOTICE - PRESCREENING

SIGN-UP FOR ALUMINUM COMPANY OF AMERICA, CO-OP INTERVIEWS

TURN IN RESUMES: Tuesday, January 29, 1991

WHERE: Co-op Office, 101 Buehler Bldg.

TIME: 7:45 am - 11:30 am - 1:00 pm - 4:00 pm

INTERVIEWING: M.E.

REQUIREMENTS: 2.4 gpa or above, American Citizenship required. Academic level of applicants: at least 15 credit hours completed at the end of the present semester toward bs degree.

THE ACTUAL INTERVIEW DATE WILL BE TUESDAY, FEBRUARY 19, 1990.

Aluminum Company of American (ALCOA) of Davenport, Iowa has requested that we furnish them with resumes for pre-screening. We will accept as many CO-OP resumes as we can collect. Just drop off a copy of your CO-OP resume on the above sign-up date. After pre-screening, ALCOA will send the Co-op Office a list of those students they are interested in interviewing. The list should be posted in the UMR Co-op Office by Monday, Feb. 11. Check with the Co-op Office no later than Feb. 11.

## SPECIAL NOTICE - PRESCREENING

SIGN-UP FOR SEMS (SACHS ENERGY MANAGEMENT SYSTEMS)

TURN IN RESUMES: Wednesday, Feb. 6, 1991

WHERE: Co-op Office, 101 Buehler Bldg.

TIMES: 7:45 am - 11:30 am - 1:00 pm - 4:00 pm

INTERVIEWING: E.E., M.E.

REQUIREMENTS: 3.0 GPA or above. American Citizenship required. Academic level of applicants: at least 30 credit hours completed at the end of the present semester.

THE ACTUAL INTERVIEW DATE WILL BE WEDNESDAY, FEB. 27, 1991

START WORK FALL 91

SEMS (Sachs Energy Management Systems), Chesterfield, MO (suburb of St. Louis) has requested that we furnish them with resumes for pre-screening. We will accept as many co-op resumes as we can collect. Just drop off a copy of your co-op resume on the above turn-in date. After pre-screening, SEMS will send the Co-op Office a list of those students they are interested in interviewing. The list should be posted in the UMR Co-op Office by Friday, Feb. 15. Check with the Co-op Office no later than Feb. 15.

# Summer Employment

UNIVERSITY OF MISSOURI-ROLLA  
Placement Office  
Buehler Building, 9th & Rolla St.

## SUMMER EMPLOYMENT

## Weekly Detail List #2

Week of February 11-15, 1991

SIGNUP LOCATION: G-3 Buehler Building  
SIGNUP HOURS: 7:45 to 11:15 a.m.  
1:00 to 4:15 p.m.

## PRESCREENED INTERVIEWS

For prescreening companies, qualified students must submit resumes in Room G-3, Buehler Building, prior to the deadline outlined. Resumes will be mailed to participating companies three weeks prior to their interview date, and they will select the students they wish to interview. Selectee's names will be posted on the bulletin boards in the signup area and in the appropriate departments. Posting of names will be done approximately two weeks before the interview date with a four-day deadline for signing.

NATURAL GAS PIPELINE-MIDCON  
701 E. 22nd St.  
Lombard, IL 60148  
attn: Ms. JoAnn Lazuka

NUMBER OF SCHEDULES: 1  
MAJORS: BS/ME, CE, PE  
POSITION: Field "hands-on" engineering or office "design" engineering; storage reservoir engineering  
INTERVIEWING: Dec. 1991, July 1991 or May 1992 grads  
MINIMUM G.P.A.: 2.5  
CITIZENSHIP: Must be authorized to work full-time in the U.S; we do not sponsor H-1 visas.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 24, 1991  
INTERVIEW DATE: February 14, 1991

## SUMMER EMPLOYMENT

## WEEKLY DETAIL LIST #3

Week of February 18-22, 1991

EXXON, INC.  
P.O. Box 2283  
Houston, TX 77251-2283  
attn: Ms. Shirley Bates, Scheduling Coordinator

NUMBER OF SCHEDULES: 2  
MAJORS: BS/MS ChE, ME, Mining Eng, PE, Geol. Eng.  
POSITION: Details will be posted at time of interview signups.  
LOCATION: Nationwide - predominately Texas, Louisiana, and New Jersey  
INTERVIEWING: Summer: December 1991 or May 1993 grads  
MINIMUM G.P.A.: Prefer G.P.A. of "B" or above  
CITIZENSHIP: U.S. Citizenship or Permanent Resident  
-- more details are available.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 19, 1991

PROCTER & GAMBLE COMPANY  
2 Procter & Gamble Plaza  
Cincinnati, OH 45202-3314  
attn: Ms. Janice Battle

NUMBER OF SCHEDULES: 1  
MAJORS: ChE - one year from final degree  
BS/MS  
POSITION: R&D Product Development - Summer Intern Program - work programs in chemical process research, and process & product development. More details will be available at time of interview signups.  
LOCATION: Cincinnati, OH  
CITIZENSHIP: Must be a U.S. Citizen; a permanent resident, refugee, or asylee immigrant; or a temporary resident admitted under the amnesty program of the 1985 Immigration Act.

DEADLINE FOR TURNING IN RESUMES: Thursday, January 31, 1991  
INTERVIEW DATE: February 20, 1991

The following company has indicated Juniors and Seniors pursuing their degrees in EE, ME, IE, NE, ChE, EnvironE, Accounting/MIS may submit their resumes to the placement office:

WESTINGHOUSE ELECTRIC CORPORATION  
Westinghouse Building, Gateway Center  
Pittsburgh, PA 15222  
attn: Mr. Erle E. Johnson, Manager University Programs

Note: Westinghouse will interview for permanent employment on February 19, 20, 1991.



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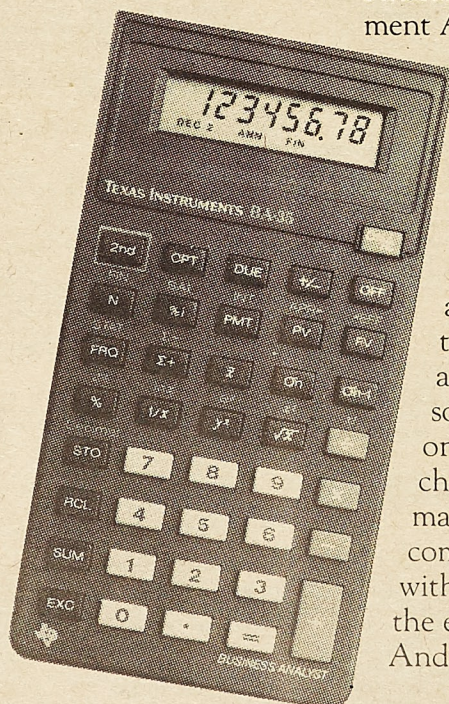
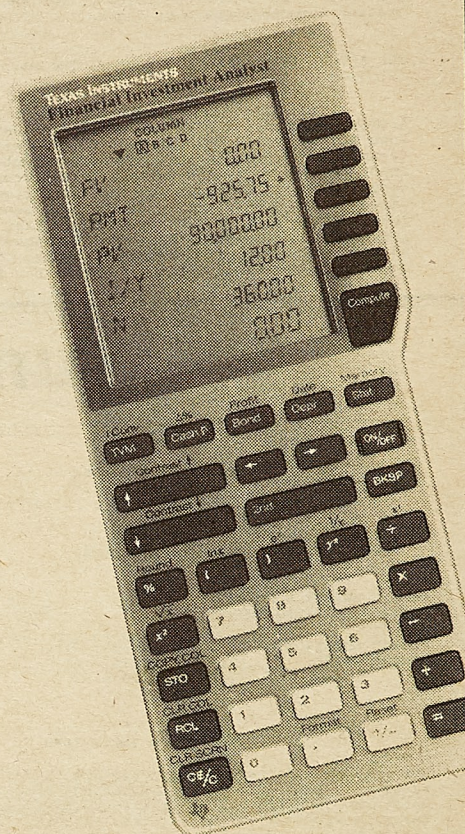
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